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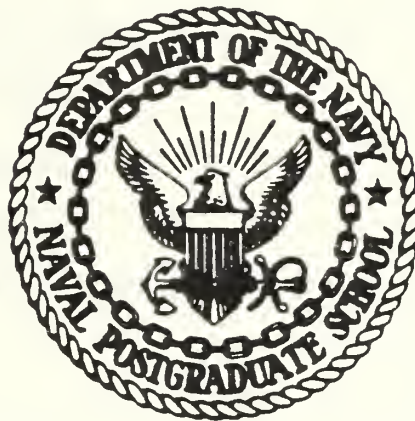
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FOREIGN OBJECT DAMAGE IN NAVAL
AIRCRAFT ENGINES

Jack "B" Mills

NAVAL POSTGRADUATE SCHOOL

Monterey, California



THESIS

FOREIGN OBJECT DAMAGE IN NAVAL
AIRCRAFT ENGINES

by

Jack "B" Mills

June 1981

Thesis Advisor:

John W. Creighton

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20. (continued)

operating environment are discussed. Conclusions and recommendations are included.

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Foreign Object Damage in Naval
Aircraft Engines

by

Jack "B" Mills
Lieutenant Commander, United States Navy
B.S.A.E., Auburn University, 1972

Submitted in partial fulfillment of the
requirements for the degree of

MASTER OF SCIENCE IN MANAGEMENT

from the

NAVAL POSTGRADUATE SCHOOL
June 1981

ABSTRACT

An investigation of historical data was conducted in an attempt to assign a specific cause to each foreign object damage incident reported during an eighteen month period. Interviews were conducted with engineers and fleet maintenance personnel in support of the above research. The impact of current FOD reporting procedures, the foreign objects, the ingestion process and the operating environment are discussed. Conclusions and recommendations are included.

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I. INTRODUCTION

A. BACKGROUND

Foreign object damage (FOD) is the damage caused when debris is ingested by, or lodged in a system/mechanism, or that causes a material failure that renders the equipment unstable or unsafe for operation. While FOD can affect any aircraft system, this thesis is restricted to the investigation of FOD in naval aircraft engines, and any reference to FOD, hereafter, will be so restricted.

The effects of FOD impact adversely on naval aviation. It accounts for the largest percentage of premature removals of gas turbine engines from naval aircraft. The resulting repair effort consumes excessive maintenance man-hours, imposes severe unscheduled work loads on supporting activities, creates a shortage of ready for issue (RFI) engines, and depletes spare parts in the inventory, thereby creating an unacceptable impact on the fleet logistics support structure. These effects combine to reduce operational readiness and training capability.

The author could find no authoritative statement as to the annual cost incurred by the Navy for FOD. Commander Task Force Seven Seven estimated that the depot level repair costs, for calendar year 1980, for the TF-30 engines under his cognizance alone, would be \$5.73 million. That does not include the costs expended for intermediate level repair. A 1979

Naval Audit Service, Western Region, Report estimated the depot level repair costs for 1978 to be more than \$49 million. These are only estimates. Their message, however, is clear; FOD is costly. That cost can only increase as engines become more sophisticated, their repair costs increase, and inflation takes its toll. If the Navy is to realize a reduction in the cost of FOD, the factors affecting FOD must be clearly understood and management attention focused on them. These factors include the foreign objects, the ingestion process, and the operating environment.

B. THESIS OBJECTIVE

The purpose of this investigation was to positively identify the causes of FOD in naval aircraft engines.

C. METHODOLOGY

The overall approach was to examine the historical data currently available, and to reduce it to a usable form. Additionally, interviews were conducted, both by telephone and in person, with fleet organizational and intermediate level maintenance personnel, various Naval Air Rework Facility (NARF) personnel, and aircraft contractor personnel.

The primary sources of historical data were various 3-M reports, Naval Aviation Safety Office Unsatisfactory Report Files, and Commander, Naval Air Forces, Pacific (CNAP) and Atlantic (CNAL) FOD message reports. Considerable effort

was expended to ensure that no one FOD incident was counted more than once. This data is presented in Appendix I.

The Fleet Commander's FOD reports were considered the primary data source because of the narrative cause section. 3-M data was used primarily to cross check for double counting and to try to reduce the significant number of unknowns listed in the other reports. Reduction of the unknown category proved to be impossible.

Data for the period from 1 June 1979 to 31 December 1980 was utilized because it was considered to be the most complete and was easily attainable. Very early in the effort it became apparent that it would be futile to try to accurately account for all FOD incidents occurring in the data period as no single source of data existed. Nor would it be possible to account for the large variations in the number of incidents listed in each of the various reports. Furthermore, no reporting system is in use by NARFS, so data on engines repaired by them is non existent. The source material reduced yielded 1143 FOD incidents, 636 of those had attributal cause.

The interviews were considered necessary to gain an intuitive feel for the accuracy of the causes listed on the various FOD reports. They also provided an insight as to the difficulty of determining the actual cause of the FOD.

Research was restricted to tactical aircraft which operate both ashore and afloat. Exceptions to this were the CH-53 helicopter, and the A-4, which, with the exception of the

training command operates primarily ashore. The F-4 data included Marine Squadrons that also operate primarily ashore.

II. FOD REPORTING

FOD reporting procedures are not, in themselves, an objective of this thesis. A discussion of them is required here only because they provided the basis for the data compiled. No single source of data exists for FOD, though the 3-M aviation engine removal/FOD report is probably the most accurate source for total numbers of FOD. For this reason various reports were used for this research.

A. 3-M REPORTS

3-M reports are computer generated summations from data stored in the 3-M maintenance data collection subsystem. The source document for this report is the OPNAV Form 4790/60 VIDS/MAF. The aviation engine removal/FOD report uses only four malfunction codes in the cause for removal section; they are:

FOD 301 : FOD-cause, External to Aircraft or Unknown

FOD 302 : FOD-cause, self-induced by engine material failure
(not a valid malfunction code)

FOD 303 : FOD-cause, bird strike

FOD 304 : FOD-cause, self induced by ingestion of aircraft
parts such as dzus button, rivet, fastener, fairing
piece, etc.

Under these categories the data would have reduced to:

FOD 301 : 844

FOD 302 : 69

FOD 303 : 24

FOD 304 : 206

For management purposes then this would mean that FOD 301 would represent 74% of all FODS with no breakout of the unknowns.

B. CNAL/CNAP FOD REPORTS

Both Naval Air Force Commanders, Atlantic and Pacific, require FOD reports for each organizational and intermediate (IMA) activity. They differ slightly in report requirements, but they both require a narrative description of the cause of the FOD incident. The IMA report requires a cross reference to the date-time-group of the operating activity's FOD message report. This cross-reference requirement helped to prevent double counting during research. Additionally, it uncovered engines that had FOD damage that was undetectable at the squadron level. Though these reports are not computerized, the narrative section proved invaluable, and for this reason they were chosen as the primary vehicle for this research.

C. NARF DATA

Currently NARF's are not under any reporting system except for engineering investigations (EI) reporting. Therefore most data for engines sent to a NARF for depot level repair is lost. Responses to Commander, Naval Aviation Logistics Center

questionnaire Serial 222/13700/1636 of 26 November 1980, indicate that a significant number of engines reach the NARF's for standard level depot maintenance (SDLM) with FODed engines. This is not surprising in light of the number of FODed engines that exhibit no degradation in operating characteristics whatsoever. With no reason to suspect FOD the operating activity cannot be expected to inspect for FOD damage, nevertheless data is lost for collection purposes.

An engine can be sent to a NARF that is a designated cognizant field activity (CFA) for an engineering investigation. EI's are then conducted to determine the cause of the malfunction, in this case the cause of the FOD. Engineers from two CFA's were interviewed to determine the value of these EI's. Their response was that about 90% of the time no accurate cause could be determined and that the best they could do was an educated guess based on damage characteristics. As with other NARF data, EI results are not easily obtainable, and because so few are requested they were not considered for inclusion in the source data.

D. PROBLEMS WITH FOD REPORTING

1. Impact

FOD reporting has increased in significance in the Navy recently. Most of this new emphasis has been placed on reducing the number of reports that list unknown as a cause. Interviews with fleet personnel, both the workers and middle

management revealed a feeling of frustration over this emphasis. No one denies the value of pursuing an aggressive FOD reporting program and most indicated strong support for it. The frustration they feel stems from the pressure that is brought to bear to assign a cause even when they have done their best but cannot evaluate the cause. This situation can quickly lead to "pencil-pushing" and can result in an overall degradation of the program.

2. Assigning Cause

The only way to determine the cause of FOD with certainty is to see foreign material ingested in an engine and then to match the damage characteristics to that object, or to find pieces of the object in the engine. Bits of gravel, concrete, and non-skid will sometimes adhere to the rotor blades or stator vanes, but an engine, due to the high velocity of airstream, will rarely retain the material that caused the damage. This usually means that FOD cause is guessed at by damage characteristics.

Damage characteristics can go a long way in providing a good educated guess as to the category of the material causing the FOD. Nicks with a thread pattern or indicating a special type fastener, or dents attributable to micro-FOD offer strong evidence of the type of material that was ingested but not where it came from or when the FOD occurred. Damage characteristics do not offer conclusive proof.

An engine can be FODed and show no degradation in operating characteristics. This fact was verified by the message

reports reviewed and in interviews with IMA repair personnel, NARF engineers and engine contractor personnel. In one instance a squadron turned in an engine for a routine inspection and requested a quick-turn-around because the engine was operating well. The subsequent inspection revealed that a 12th stage compressor blade was missing. Research also proved that material that usually causes FOD can be ingested with no damage incurred.

FOD is normally investigated when an engine exhibits operating characteristics consistent with FOD, i.e., compressor stalls, inability to produce full power, or flames exiting the tailpipe. In this case there is no way of telling how long the engine was FODed prior to the problem surfacing. It could have FODed on the previous flight or it could have happened many hours ago. The problem here is the tendency of maintenance personnel to assign the FOD to the last flight. If a fastener or some miscellaneous hardware is then found missing it tends to become the cause, and the location is assigned to the carrier/base where the FOD was discovered. Preflight and turn-around inspections often uncover FOD in the first few compressor stages which also leads to a FOD investigation. In this instance there is a high probability that it happened on the previous flight.

III. CAUSES OF FOD

Modern jet aircraft engines are axial flow gas turbines that operate at high RPM. They produce thrust by expelling air at high velocity and high temperature. Close tolerances and exotic metals are required to compress the air and to heat it sufficiently to produce the necessary thrust. Because of these tolerances and metals they are particularly susceptible to damage from objects that are swept down the intake along with the air. Any object that can physically fit down the intake has the potential to cause FOD. To adequately assign cause to FOD requires that both the actual objects themselves, and the ingestion process be investigated.

A. OBJECTS

The range of objects documented as causing FOD is astounding and includes such items as tools, rags, aircrew equipment, birds, ice, rocks, non-skid, and people. In one FOD report reviewed paint overspray on the first few compressor stages caused FOD. Though no structural damage occurred it required an engine removal to remove the paint.

Figures (1) and (2) summarize the data compiled in Appendix I. The categories in Figure (1) are arbitrary and were chosen because of the frequency of occurrence and for ease of compilation. The rationale for assigning each incident to a category is the author's and therefore the numbers

could vary if different criteria were used. The narrative of each report also influenced which objects were placed in which category.

The tools category included masking tape, paper, aural protectors, flashlights and lenses, cranial helmets and intake screen parts, as well as ordinary hand tools. Landing gear and ordnance and canopy safety pins could have been included in aircraft and miscellaneous hardware as could have Calfax fasteners.

Calfax fasteners were categorized separately because informal liaison with the F-14 community indicated they were a troublesome FOD hazard. The low number found (18) could indicate that the original problem has been fixed. It could also point out a non homogeneity in the use of the FOD report narrative section. If the words fastener vice Calfax fastener were used in a report then that incident was placed in the aircraft/miscellaneous category.

B. THE INGESTION PROCESS

Debris, no matter where it is, will not cause FOD unless it is ingested by an engine. For an object to be ingested it must be near and in front of the engine intake. It can be lying there at rest or it can be propelled there by the wind or another aircraft exhaust. How close it must be depends on the size and shape of the object, the mass flow rate of the engine, whether it is at rest or in motion, and engine intake location, primarily its height above ground.

1. Dr. FOD and the Wayward Body

Dr. FOD and the Wayward Body is a U.S. Navy training film currently in use for FOD training and awareness. The film is good and it does a thorough job of discussing the FOD problem ashore. However, Dr. FOD suggests that for an object to be ingested it must be within 18 inches of the intake or be in motion. He uses a smoke generator and a stationary aircraft at high power to prove his point. The smoke generator is placed to the side of the aircraft and a light crosswind drifts the smoke in front of the aircraft. Only a small amount of smoke is ingested by the engine while most of it swirls near the ground in the engine generated vortex. The film completely discounts differing mass flow rates for different engines and different intake heights above the ground. As the mass flow rate of an engine increases so does the zone about the intake where an object will be subject to ingestion. An object in motion will be ingested more readily than a stationary one. However, an object lying in a depression, in the ground or on the flight deck can approximate an airfoil shape, and be subjected to an airfoil like pressure differential. This pressure difference creates lift similar to an aircraft wing making the object easier to pick up, and increasing the probability of ingestion.

2. Design Factors

Engine intake location is a contributing factor to FOD. It has little affect on objects blown in the proximity

of the intake by other aircraft or the wind, but intakes that are low to the ground such as the A-7, have a greater probability of FOD than ones with greater ground clearance. 52% of all A-7 FOD incidents with a cause assigned were from either non-skid, gravel/rocks or the steel shot used for surface preparation of flight deck non-skid. One carrier attributed 14 engine FODs to steel shot after a flight deck resurfacing - 13 of which were A-7's. The Air Wing embarked operated the standard mix of aircraft yet the FODs were nearly all to A-7's. Though this does not prove the relationship of intake height to FOD, it strongly suggests a correlation.

Hardware and fasteners located forward of the intake have a higher probability of producing FOD than those located aft of the intake. Removeable access panels are required for maintenance therefore removable fasteners are necessary. 206 FOD incidents were caused by miscellaneous hardware and fasteners. Only 3 such incidents occurred in the A-7 aircraft which is very clean forward of the intake. This low incidence in A-7's suggests that the fewer of these items forward of the intake the less of a factor they are in FOD. NAVAIR personnel indicated the F-14 aircraft FOD rate due to fasteners decreased when the Calfax fastener problem was improved. It is not possible to eliminate removable fasteners forward of the intake but proper tightening, sealing techniques, or design could significantly reduce this problem.

C. OPERATING ENVIRONMENT

Many fleet aviation personnel firmly believe that, despite design factors, FOD is caused by poor maintenance practices, poor housekeeping, and carelessness. They present a strong argument that if the operating environment were free of debris, and proper maintenance practices were followed, the incidence of FOD would be negligible. They are right. If it is not there it cannot cause FOD. There is ample evidence in the FOD reports reviewed that an operating base/ carrier can go from the highest incidence of FOD per quarter to the lowest. No aircraft design changes occur during this period but major emphasis is put on cleaning up the operating environment.

Poor maintenance practices can create FOD. An ongoing effort must be made to reduce this problem but it involves more than just making maintenance personnel aware of the problem. It is easy to blame the mechanic who drops a scrap of safety wire on the flight deck of poor maintenance practices. That same mechanic, working on the flight deck of a carrier, at night, while wearing goggles, gloves, safety vest and cranial helmet is trying to finish a maintenance action so the aircraft can make the launch. There is 30 knots of wind across the deck, he is using only a red lensed flashlight for illumination, a launch cycle is in progress, and the safety wire scrap slips from his grasp while he is trying to put it into his FOD bag. Is that poor maintenance practice or the operating environment?

Naval aircraft operate both ashore and from carriers. Each environment has special FOD hazards associated with it which must be fully understood by both fleet maintenance managers and other fleet aviation personnel.

1. Shore Stations

By virtue of their size alone shore stations create a laborious clean up problem. They exist in an environment that has an endless supply of debris. The wind can blow this debris back and forth across the airfield many times a day. A wind shift after a FOD walkdown can render that effort virtually useless. Shore stations employ vast numbers of personnel who are not a part of aviation and have no idea what FOD is or the safety hazard debris dropped carelessly on the ground can create. As an airfield ages it takes more money to keep the runways, taxiways, and ramps in sound repair. Less expensive repairs to the airfield are often substituted when wholesale resurfacing of all areas is required.

2. Carriers

Carriers also suffer from a size problem but the opposite one of shore stations. Many aircraft are jammed into very tight quarters, often so close that FOD walkdowns are inhibited. Padeyes become especially good hiding places for debris. The flight deck, especially during flight operations is subject to high relative winds necessary for the launch and recovery of aircraft. Underway replenishment operations create a vast amount of debris that must be cleaned up. Long

taxi intervals are impossible, aircraft must be started and turned up in congested traffic conditions and maintenance must be accomplished on the flight deck under adverse conditions. The launch and recovery cycles are fast paced events and in themselves can create a FOD problem.

Carrier landing operations create a special FOD hazard. A naval aircraft lands with a high rate of descent and its forward motion is abruptly terminated by an arresting wire. The forces imposed on the aircraft during this landing operation can loosen, or break loose hardware which is then thrown forward by momentum. As the aircraft touches down the pilot advances the throttles to military power to promote safety in the event of a bolter. Aircraft are normally landed at 45 to 60 second intervals. An aircraft can ingest its own lost hardware or that of a previously landed aircraft.

D. WHERE FOD OCCURS

Although FOD can and does occur in flight there is a general consensus among aviation personnel that FOD is most prevalent during taxi, takeoff and landing. This argument is hard to refuse and is taken to be fact. A 1977 FOD study supplied by the Naval Air Systems Command found no significant differences in the incidence of FOD among the various land bases.

This thesis was designed to be non-threatening, and therefore, no attempt to identify FOD incidence with a particular

operating unit, carrier, or shore station was attempted. At the outset of this research it was believed that the at sea FOD incidence would be higher than the land based incidence. Figure 2 shows that the incidence ashore (639) was higher than the at sea incidence (445). However, if the FOD incidence for those commands operating primarily ashore are removed the ashore/sea ratio becomes 449 to 445 respectively. A breakdown of the ashore/at sea flight hours was unavailable for this study so the FOD rates/1000 flight hours could not be determined. A correlation study of engine hours versus FOD incidence by major command revealed that a strong positive relationship (correlation coefficient = .95) between these two variables.

IV. CONCLUSIONS

A single data source for FOD statistics data must be developed. This would eliminate the large variance found in the number of reported FODs. The 3-M maintenance data collection subsystem (MDCS) is recommended for use as it is already in existence. The malfunction codes should be expanded to:

UNKNOWN

METALLIC OBJECT

NON-SKID

GRAVEL/ROCKS/CONCRETE

AIRCRAFT/MISCELLANEOUS HARDWARE

OTHER

Internal material failure, bird strikes and ice, as categories should be deleted.

The CNAP/CNAL FOD reports offer valuable insight to the FOD problem and they should be retained. They reflect, on a real time basis, trends in FOD incidence and therefore they can aid management in detecting trends early. They should not be considered authoritative as to the location or cause of the FOD occurrence. Care must be taken not to force fleet maintenance personnel into a defensive mode that could lead to pencil pushing.

Since a majority of FOD occurs during taxi, take off and landing the debris collected during FOD walkdowns can be considered a prime causal factor. If these items were analyzed

the percentages of each would roughly approximate its affect on the total number of incidents. It is recognized that this would not help assign specific cause to each incident, but local commands might find it valuable in spotting trends.

NARFs must be required to report FOD statistics, if not via the 3-M MDCS then by a computer system compatible with it.

The high percentage of unknown causes reported and the stated lack of ability of even highly qualified engineers to determine FOD causes with certainty casts doubt on the validity of the data collected for this study. It is believed, however, that the Navy has a good intuitive feel for the cause of FOD and is moving positively toward the reduction of FOD incidence. Further, it is believed that uncovering the cause of each FOD incidence with certainty would not be cost effective, and that it would require a valuable engine asset to be out of service for an unreasonable length of time.

Design of intakes with respect to height above ground and a minimal number of fasteners forward of the intakes would reduce the FOD incidence in future generations of aircraft.

Poor maintenance practices and housekeeping techniques are a factor in FOD but it is far too easy to blame them without looking deeper into the root problem. Management must not erroneously blame these factors if the root cause is the operating environment.

FOD incidence is about the same ashore and at sea. While local short term variance in FOD can be found at different

operating locations there is a strong positive relationship between locations, engine hours and FOD. The FODs will occur where the engine hours are generated.

FIGURE 1

TYPE FOD BY CATEGORY

| <u>TYPE FOD</u> | <u>NUMBER</u> ¹ | <u>PERCENT TOTAL</u> |
|--|----------------------------|----------------------|
| Unknown | 507 | 44% |
| Aircraft/Miscellaneous Hardware | 188 | 16% |
| Metallic Object | 81 | 7% |
| Non Skid | 74 | 6% |
| Internal Material Failure ² | 69 | 6% |
| Gravel/Rocks/Concrete | 61 | 5% |
| Tools | 30 | 3% |
| Bird Strike ² | 24 | 2% |
| Safety Pins | 18 | 2% |
| Calfax Fasteners | 18 | 2% |
| Ice ² | 10 | 1% |
| Other | 63 | 6% |

¹No NARF Data Available

²No longer counted as FOD

FIGURE 2
SUMMARY OF FOD BY LOCATION⁴

| <u>ENGINE (AIRCRAFT)</u> | <u>ASHORE</u> | <u>SHIP</u> | <u>UNKNOWN</u> | <u>TEST CELL</u> ⁵ | <u>TOTAL</u> |
|--------------------------|------------------------|-----------------|----------------|-------------------------------|--------------|
| TF41A-2A/B (A-7) | 72 | 99 ¹ | 20 | 2 | 193 |
| J52-P8B (A-6) | 92 | 83 | 4 | 1 | 180 |
| J52-P408 (EA-6B) | 30 | 26 | 1 | 0 | 57 |
| T64GE-6B/413 (CH-53) | 26 | 0 | 0 | 1 | 27 |
| J79GE-8C/D (RF-4B) | 58 ² | 17 | 7 | 1 | 83 |
| J79GE-10A/B (F-4) | 129 ² | 46 | 15 | 0 | 190 |
| TF30-P-414 (F-14) | 121 | 151 | 5 | 1 | 278 |
| TF30-P-408 (F-14) | 16 | 0 | 0 | 0 | 16 |
| TF34GE-400 (S-3) | 26 | 23 | 0 | 0 | 49 |
| J52-P6B (A-4) | 26 ³ | 0 | 0 | 1 | 27 |
| J52-P-408 (A-4) | 25 ³ | 0 | 0 | 0 | 25 |
| J52-P8A/B (A-4) | <u>18</u> ³ | <u>0</u> | <u>0</u> | <u>0</u> | <u>18</u> |
| TOTAL | 639 | 445 | 52 | 7 ⁵ | 1143 |

¹28 incidents in June/July/August 1980 from non skid/steel shot

²42 and 79 respectively from U.S. Marine units operated primarily ashore

³Operated primarily ashore except for carrier qualifications in the training command

⁴No NARF incidents included in the data due to lack of reporting. The unknown category is included because the nature of the report made a determination of location impossible. This was most prevalent in AIMD reports for which no squadron report was available.

⁵All NARFs run engines on test cells. This number would have been higher if NARF reporting were required.

APPENDIX I

SOURCE DATA COMPILATION

TF41A-2A/B
JUL 1979

SHORE SHIP TEST CELL

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|-----------------------|------|-------|------|-----------|---------------------------|-------------|
| 142568 | MAJ | SMALL ROCKS | | X | | | RANGER 171351Z JUL 79 | PA5-916314 |
| 141937 | MAJ | UNK | | | X | | ATKRON 192 12310Z JUL 79 | |
| 141328 | MIN | WING TIP PLASTIC LENS | | | X | | CORAL SEA 011710Z AUG 79 | |
| 141985 | MAJ | INT MAT FAIL | | X | | | ATKRON 27 261800Z JUL 79 | |
| 141519 | MIN | FIBER GLASS FRAGMENTS | | | X | | CORAL SEA 250022Z JUL 79 | |
| 141925 | MAJ | SELF-INDUCED | | | X | | RANGER 171355Z JUL 79 | PD4-9196270 |
| 141962 | MAJ | INT MAT FAIL | | X | | | LEMOORE 131600Z JUL 79 | |
| 141354 | MAJ | GRAVEL/CONCRETE | REP | X | | | LEMOORE 072121Z AUG 79 | |
| 141454 | MAJ | " | " | X | | | " " " | |
| 141495 | MAJ | " | " | X | | | " " " | |
| 142526 | MAJ | " | " | X | | | " " " | |
| 141937 | | UNK | | | X | | ATKRON 192 030247Z JUL 79 | |
| 141360 | MAJ | UNK | RFI | X | | | CUBI PT 082307Z AUG 79 | |

SHORE
SHIP
TEST CELL

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|-----------------|------|-------|------|-----------|---------------------------|-------------|
| 141532 | MAJ | SUSP NON-SKID | BCM | | X | | ATKRON 94 310815Z AUG 79 | PA3-923266 |
| 141594 | MAJ | SUSP MTL OBJ | | | X | | KITTY HAWK 250415Z AUG 79 | |
| 141970 | MAJ | GRAVEL/CONCRETE | | X | | | LEMOORE 102221Z SEP 79 | |
| 142507 | MAJ | SML MTL OBJ | | X | | | " " " | PC4-9220400 |
| 141601 | | UNK | BCM | | X | | AMERICA 131245Z AUG 79 | |
| 141300 | | UNK | | | | | * 790814 5 09230 | |
| 141925 | MAJ | ROCK | BCU | | X | | RANGER 031013Z AUG 79 | |
| 141355 | MAJ | DECK PAINT | | | X | | CUBI PT 082307Z AUG 79 | |
| 141881 | MAJ | UNK | BCM | | X | | KITTY HAWK 071225Z AUG 79 | |
| 141531 | MAJ | NON-SKID | BCM | | X | | CUBI PT 110147Z SEP 79 | |
| 141504 | MAJ | NON-SKID | AWP | | | | " " " | |
| 141928 | MAJ | UNK | AWP | | | | " " " | |
| 141494 | MAJ | SYNTHETIC MAT | AWP | | | | " " " | |
| 141589 | MAJ | METAL OBJ | AWP | | | | " " " | |
| 141256 | MAJ | UNK | BLM | | X | | KITTY HAWK 110234Z SEP 79 | |

* UNSATISFACTORY REPORT FILE, RECORD IDENT

| S/N | CAT | CAUSE | DISP | SHIP | | REF | JCN |
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| | | | | SHORE | TEST CELL | | |
| 142600 | MAJ | SUSP RAMP DEBRIS | | X | | ATKRON 146 260505Z SEP 79 | |
| 141484 | MAJ | UNK | | X | | KITTYHAWK 061310Z OCT 79 | |
| 142575 | MAJ | SUSP 7/16" SOCKET | | X | | CHINA LAKE 122329Z SEP 79 | |
| 141281 | MAJ | SMALL HRD OBJ'S | | | X | KITTYHAWK 250477Z SEP 79 | |
| 142525 | MAJ | SML MTL OBJ | BCM | X | | LEMOORE 101821Z OCT 79 | |
| 141415 | MAJ | LRG MTL OBJ | X | X | | " " " | |
| 141532 | | SUSP NON-SKID | | X | | SAN DIEGO 061522Z SEP 79 | |
| 141929 | | UNK | | | X | ATKRON 87 101258Z SEP 79 | |
| 141596 | MAJ | UNK | | | X | * 790924 3 1401 | |

* MISHAP REPORT FILE 1 RECORD IDENT

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| 141608 | MAJ | 10/32" SCREW | | X | | ATKRON 146 182106Z OCT 79 | | |
| 141477 | MAJ | SUSP ROCK/CONCRETE | | X | | ATKRON 27 232330Z OCT 79 | | |
| 141885 | MAJ | UNK | BCM | | X | KITTYHAWK 141336Z NOV 79 | | |
| 141491 | MAJ | UNK | BCM | | X | " " " | | |
| 141228 | MAJ | METAL OBJ | BCM4 | X | | LEMOORE 071821Z NOV 79 | | |
| 141343 | MAJ | METAL OBJ | BCM4 | X | | " " " | | |
| 141530 | MAJ | METAL OBJ | BCM4 | X | | " " " | | |
| 141223 | | PORTION OF LP DUCT | | | X | NIMITZ 041059Z OCT 79 | | |
| 141272 | | UNK | | | X | ATKRON 87 051349Z OCT 79 | | |
| 142611 | | BIRD STRIKE | | X | | ATKRON 174 291720Z OCT 79 | | AC2-930226 |
| 141605 | INT | MAT FAIL | | X | | ATKRON 83 251942Z OCT 79 | | |
| 141248 | | UNK | | X | | ATKRON 83 311530Z OCT 79 | | |
| 141445 | | INT MAT FAIL | | | X | * 791013 5 09215 | | AD7-9282301 |
| 141355 | MIN | SUSP DECK PAINT AND GRIT | | X | | * 791103 5 01505 | | PC4-9295746 |
| 141567 | | UNK | | | X | ** 791028 3 0501 | | PC4-929804 |
| 141466 | MAJ | UNK | BCM | | X | KITTYHAWK 070001Z OCT 79 | | |
| 141369 | MAJ | SAFETY WIRE | REP | | | CUBI PT 082317Z NOV 79 | | |
| 142368 | MAJ | NON-METALLIC MAT | REP | | | " " " | | |
| 141550 | MAJ | UNK | BCM | | | " " " | | |
| 141948 | MAJ | METALLIC MAT | REP | | | " " " | | |

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| 141610 | MAJ | UNK | | | | X | | ATKRON 113 040038Z DEC 79 | | PC4-926750 |
| 142596 | MAJ | SUSP NON-SKID | | | | | X | KITTY HAWK 250441Z NOV 79 | | PF5-933413 |
| 141542 | MAJ | TOWBAR GRIP LENGTHS | | | | | X | CONSTELLATION 032135Z DEC 79 | | |
| 141920 | | UNK | | | | | X | ATKRON 174 020701Z NOV 79 | | |
| 141917 | | TOOL BOX & ENG TRIM BOX | | | | | X | ATKRON 83 061330Z NOV 79 | | AF4-930373 |
| 142535 | MAJ | UNK | | | | | X | * 791128 5 20400 | | |
| 142598 | MAJ | UNK | | | BCM 4 | | X | LEMOORE 102121Z DEC 79 | | |
| 142595 | MAJ | SMALL METAL OBJECTS | | | BCM 4 | | X | " " " | | |
| 142569 | MAJ | UNK | | | BCM 4 | | X | " " " | | |
| 141374 | MAJ | UNK | | | BCM 4 | | X | " " " | | |
| 142521 | MAJ | UNK | | | BCM 4 | | X | " " " | | |
| 141559 | MAJ | NON-SKID | | | AWP | | X | CUBI PT 092347Z DEC 79 | | |

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| 141519 | MAJ | UNK | | X | | ATKRON 192 050302Z DEC 79 | PJ3-9337314 |
| 41227 | MAJ | INT MAT FAIL | | X | | " 113 032034Z JAN 80 | |
| 141373 | MAJ | BIRD STRIKE | | X | | " " 211600Z DEC 79 | |
| 141610 | MAJ | UNK | | X | | " " 040038Z DEC 79 | |
| 141509 | MAJ | SUSP NON-SKID | BCM | | X | KITTY HAWK 290642Z DEC 79 | |
| 141923 | MAJ | BIRD STRIKE | BCM | X | | ATKRON 122 271014Z DEC 79 | |
| 141358 | MAJ | INT MAT FAIL | | X | | " 113 172230Z DEC 79 | |
| 141332 | | SUSP RIVET OR SCREW | | | X | " 81 020419Z DEC 79 | |
| 141441 | MAJ | SMALL METAL OBJ | | | | LEMOORE 111822Z JAN 80 | |
| 141394 | MAJ | " " | | | | " " " | |
| 141590 | MAJ | NON-SKID | | | X | " " " | |
| 141535 | MAJ | SMALL METAL OBJ | | X | | " " " | |
| 141933 | MAJ | NON-SKID | | | X | " " " | |
| 141904 | MAJ | NON-SKID | | | X | " " " | |
| 141542 | MAJ | POP RIVETS | BCM | | X | CONSTELLATION 271740Z DEC 79 | |

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| 141881 | MAJ | SUSP METAL OBJ | BCM | X | ATKRON 146 070215Z FEB 80 | AC2-002540 |
| 141382 | | UNK | | X | * 800125 3 0701 | |
| 141370 | MAJ | UNK | BCM | X | KITTY HAWK 121150Z FEB 80 | |
| 142593 | MAJ | UNK | BCM | | LEMOORE 072121Z FEB 80 | |
| 141978 | MAJ | UNK | BCM | X | CONSTELLATION 042132Z FEB 80 | |

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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|------------------------------|------|-------|------|-----------|---------------------------|-------------|
| 141619 | MAJ | UNK | | X | | | NIMITZ 251753Z MAR 80 | |
| 141579 | MAJ | SUSP MTL OBJ | | X | | | NIMITZ 301733Z MAR 80 | |
| 141902 | MIN | PAPER & MASKING TAPE | | X | | | NIMITZ 260925Z MAR 80 | |
| 141587 | MIN | BIRD STRIKE | | | | | ATKRON 192 251845Z MAR 80 | |
| 142622 | MAJ | TURN-UP SCREEN EYE BOLT ASSY | | X | | | CORAL SEA 050554Z MAR 80 | PF7-006262 |
| 141372 | | UNK | BCM | X | | | SARATOGA 281904Z MAR 80 | |
| 141504 | | UNK | | | | | * 800421 5 20400 | N65-0°86037 |
| 141957 | | FLASHLIGHT | | X | | | ** 800306 3 0401 | |
| 141327 | | UNK | | | | | ** 800320 4 0401 | |

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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|-------------------|------|-------|------|-----------|-----------------------------|-------------|
| 142589 | MAJ | SMALL NUT OR BOLT | | | X | | ATKRON 146 211757Z APR 80 | |
| 142552 | | UNK | | X | | | ATKRON 15 022131Z APR 80 | |
| 141317 | | UNK | REP | X | | | JACKSONVILLE 151650Z APR 80 | N65-0886031 |
| 141279 | | UNK | | | X | | SARATOGA 291418Z APR 80 | AB6-0107085 |
| 141333 | | INT MAT FAIL | | X | | | * 800417 5 21120 | AE3-0099006 |

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| 141901 | MAJ | GRAVEL | BCM 4 | X | | | ATKRON 22 012118Z MAY 80 | | |
| 141256 | MAJ | UNK | | X | | | ATKRON 146 031509Z MAY 80 | | |
| 141895 | MAJ | NON-SKID | REP | X | | | LEMOORE 150951Z MAY 80 | | |
| 141352 | MAJ | SUSP CONCRETE | REP | | | X | LEMOORE 092322Z MAY 80 | | |
| 142541 | MAJ | GRAVEL | REP | X | | | AIRTEVRON 5 080033Z MAY 80 | | |
| 141990 | MAJ | INT MAT FAIL | EIR | | | X | ATKRON 66 131720Z MAY 80 | | AD5-0125381 |
| 141275 | | UNK | | | | X | SARATOGA 230732Z MAY 80 | | |
| 141569 | | UNK | | X | | | * 800519 5 19400 | | |

* UNSATISFACTORY REPORT FILE, RECORD IDENT

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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|-------------------|------|-------|------|-----------|---------------------------|-------------|
| 141439 | MAJ | NON-SKID | | | X | | RANGER 030737Z JUN 80 | |
| 141536 | MAJ | SUSP INT MAT FAIL | EIR | | X | | ATKRON 12 220520Z JUN 80 | |
| 141879 | MAJ | NON-SKID | BCM | | X | | RANGER 070747Z JUN 80 | |
| 142511 | MAJ | TIRE TREAD | BCM | X | | | ATKRON 146 262115Z JUN 80 | |
| 141990 | MAJ | INT MAT FAIL | EIR | | X | | EISENHOWER 060502Z JUN 80 | AD5-0125381 |
| 141947 | | STEEL SHOT | AWM | | X | | ATKRON 174 231633Z JUN 80 | |
| 141920 | | " | AWM | | X | | " " " | |
| 142619 | | " | | | X | | " " " | |
| 141262 | | " | AWM | | X | | " " " | |
| 141999 | | " | AWM | | X | | " " " | |
| 142550 | | " | AWM | | X | | " " " | |
| 141875 | | UNK | | | X | | ATKRON 15 241700Z JUN 80 | |
| 141326 | | STEEL SHOT | AWM | | X | | ATKRON 174 251645Z JUN 80 | |
| 141573 | | " | AWM | | X | | " " " | |
| 141597 | | " | AWM | | X | | " " " | |
| 141407 | | " | | | X | | " " " | |
| 141412 | | " | AWM | | X | | " " " | |
| 141543 | | SUSP CONCRETE | AWM | X | | | ATKRON 87 262000Z JUN 80 | |
| 141271 | | INT MAT FAIL | | | X | | SARATOGA 301609Z JUN 80 | |
| 141944 | | INT MAT FAIL | BCM | | X | | EISENHOWER 031818Z APR 80 | |

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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|---------------|------|-------|------|-----------|--------------------------|-----|
| 141341 | MAJ | NON-SKID | BCM4 | | X | | LEMOORE 180849Z JUL 80 | |
| 141278 | MAJ | NON-SKID | BCM | | X | | " " | |
| 141949 | MAJ | NON-SKID | BCM | | X | | " " | |
| 141508 | MAJ | SUSP NON-SKID | BCM4 | | X | | ATKRON 25 022040Z JUL 80 | |
| 141610 | MAJ | NON-SKID | BCM3 | | X | | " 113 231630Z JUL 80 | |
| 141606 | MAJ | NON-SKID | BCM3 | | X | | LEMOORE 221349Z AUG 80 | |
| 141974 | MAJ | NON-SKID | BCM | | X | | CUBI PT 060007Z AUG 80 | |
| 141958 | MAJ | UNK | I/W | X | | | ATKRON 87 011820Z JUL 80 | |
| 141402 | | STEEL SHOT | AWM | | X | | " 86 031700Z JUL 80 | |
| 142530 | | SCREW SHANK | BCM | | X | | KENNEDY 071819Z JUL 80 | |

TEST CELL
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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|---------------------|------|-------|------|-----------|--------------------------|-------------|
| 141899 | MAJ | NON-SKID | BCM4 | | X | | LEMOORE 181249Z SEP 80 | |
| 142590 | MAJ | NON-SKID | I/W | | X | | " " | |
| 142614 | MAJ | NON-SKID | I/W | | X | | " " | |
| 141482 | MAJ | NON-SKID | I/W | | X | | " " | |
| 141360 | MAJ | NON-SKID | I/W | | X | | " " | |
| 141377 | MAJ | NON-SKID | BCM | | X | | " " | |
| 141346 | MAJ | NON-SKID | I/W | | X | | " " | |
| 141287 | | BUMPER PAD MATERIAL | | | X | | SARATOGA 021802Z AUG 80 | |
| 141510 | | INTAKE SCREEN STRAP | | X | | | ATKRON 82 081130Z AUG 80 | |
| 141397 | | UNK | | X | | | ATKRON 87 181620Z AUG 80 | |
| 141457 | | SUSP MTL OBJ | | | X | | NIMITZ 222143Z AUG 80 | |
| 141373 | | RIVETS | | | X | | NIMITZ 261223Z AUG 80 | |
| 141511 | | UNK | | | | | * 800916 5 21580 | WA5-0241030 |

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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|-------------------|------|-------|------|-----------|--------------------------|-----|
| 141235 | MIN | SHRADER VALVE CAP | | | X | | RANGER 090559Z OCT 80 | |
| 141556 | MIN | UNK | BCM | | X | | RANGER 282323Z SEP 80 | |
| 142505 | | UNK | | X | | | ATKRON 87 101805Z SEP 80 | |
| 141540 | | UNK | | X | | | * 810106 0 0101 | |

* FLIGHT MISHAP REPORT, RECORD IDENT

TEST CELL
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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|--------------|------|-------|------|-----------|-----------------------------|-----|
| 141471 | | DROP TANK | BCM | | X | | INDEPENDENCE 041453Z OCT 80 | |
| 142597 | | UNK | BCM | X | | | ATKRON 174 211431Z OCT 80 | |
| 141905 | | INT MAT FAIL | | X | | | ATKRON 174 211730Z OCT 80 | |
| 141938 | | INT MAT FAIL | I/W | X | | | ATKRON 83 222301Z OCT 80 | |
| 141339 | | UNK | BCM | X | | | ATKRON 174 231526Z OCT 80 | |

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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|--------------|------|-------|------|-----------|--------------------------|-----|
| 141296 | MIN | UNK | | | X | | ATKRON 12 100953Z NOV 80 | |
| 142546 | | UNK | | X | | | ATKRON 87 102300Z NOV 80 | |
| 141910 | | UNK | | | X | | ATKRON 46 150137Z NOV 80 | |
| 141361 | | EXT MAT FAIL | | | X | | ATKRON 81 231259Z NOV 80 | |

TEST CELL
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| 141488 | UNK | | | X | | | ATKRON 174 011747Z DEC 80 | |
| 141950 | UNK | | | X | | | ATKRON 82 041450Z DEC 80 | |

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|--------|-----|---------------------|------|------|-------|----------------------------|-------------|
| 661309 | MAJ | BOLT | BCM | X | | RANGER 111256Z JUN 79 | PF4-915817 |
| 650632 | MAJ | PEBBLES | RFI | X | | ATKRON 196 082245Z JUN 79 | PJ5-915976 |
| 661422 | MAJ | SML FOREIGN OBJ | | X | | " " 072144Z JUN 79 | PJ5-915660 |
| 650676 | MAJ | UNK | I/W | X | | WHIDBEY ISL 102328Z JUL 79 | |
| 678280 | MAJ | UNK | AWP | X | | " " " " | |
| 661469 | MAJ | UNK | I/W | X | | " " " " | |
| 677194 | MAJ | UNK | I/W | X | | " " " " | |
| 677534 | MAJ | UNK | RFI | X | | " " " " | |
| 678183 | MAJ | UNK | I/W | X | | " " " " | |
| 660789 | | BULLET ASSY BRACKET | | X | | * 790725 5 14370 | AE4-9197312 |

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| 661519 | MAJ | NAIL | BCM | X | X | HAMS 12 121124Z JUL 79 | | |
| 661549 | MAJ | INT MAT FAIL | | X | X | ALAMEDA 302106Z JUL 79 | | |
| 660665 | MAJ | INT MAT FAIL | RFI | X | | ATSUGI 190536Z JUL 79 | | |
| 661029 | MAJ | 7/16" NUT | | | X | RANGER 150535Z JUL 79 | PF4-9188A01 | |
| 67077 | MIN | UNK | I/W | X | | WHIDBEY ISL 091914Z AUG 79 | | |
| 677191 | | UNK | I/W | X | | " " | | |
| 677415 | MAJ | COMP BL VALVE PINS | BCM | X | | HAMS 13 092341Z AUG 79 | | |
| 677380 | MAJ | ROCK | | X | | VMA AW 332 210702Z AUG 79 | | |
| 660699 | MAJ | UNK | | X | | ATKRON 128 291658Z AUG 79 | | |
| 677478 | | UNK | | | X | ATKRON 42 171605Z JUL 79 | | |
| 660906 | | UNK | | X | | * 790802 5 07250 | PB3-9191303 | |
| 677462 | MAJ | UNK | | | X | * 790802 5 07260 | PB3-9202848 | |
| 677564 | MAJ | NON-SKID | BCM | X | X | KITTY HAWK 090250Z JUL 79 | | |
| 677242 | MAJ | NON-SKID | BCM | X | X | MIDWAY 050844Z JUL 79 | | |

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| 67380 | MAJ | ROCK | | X | | | VMA AW 332 210702Z AUG 79 | FA9 |
| 677549 | MAJ | BROKEN BLEED VALVE PINS | AWP | | X | | ATKRON 95 170739Z AUG 79 | PC5-922305 |
| 677533 | MAJ | PIP PIN | | X | | | ALAMEDA 142104Z AUG 79 | WC1 |
| 650635 | MAJ | UNK | I/W | X | | | WHIDBEY ISL 072319Z SEP 79 | |
| 660805 | MAJ | UNK | RFI | X | | | " " " | |
| 677196 | MAJ | UNK | I/W | X | | | " " " | |
| 677386 | MAJ | UNK | RFI | X | | | " " " | |
| 677556 | MAJ | UNK | RFI | X | | | " " " | |
| 677268 | MIN | BIRD | | X | | | * 790808 5 12125 | AB3-9213488 |
| 661093 | MIN | UNK | | | X | | * 790821 5 16425 | PC5-9222984 |

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| 660654 | MAJ | UNK | BCM | | X | | RANGER 070935Z SEP 79 | PJ5-926316 |
| 677541 | MAJ | SUSP BOLT | | | X | | CORAL SEA 250520Z SEP 79 | |
| 678499 | MAJ | SUSP FLT DECK FOD | | | X | | KITTY HAWK 030240Z OCT 79 | |
| 661306 | | UNK | | X | | | HAMS 12 120755Z OCT 79 | |
| 660662 | MAJ | UNK | I/W | X | | | WHIDBEY ISL 032006Z OCT 79 | |
| 677126 | MAJ | UNK | AWP | X | | | " " " | |
| 661028 | MAJ | WASHER | BCM | | X | | CORAL SEA 050342Z NOV 79 | |
| 677154 | MAJ | SUSP NON-SKID | BCM | | X | | KITTY HAWK 141336Z NOV 79 | PB3-9299A02 |
| 677441 | MAJ | UNK | REP | | X | | " " " | PB3-9303734 |
| 661179 | MAJ | UNK | BCM | | X | | " " " | |
| 661233 | MIN | BULLET ASSY BRACKET | | | X | | * 79100 5 00450 | PH5-9269002 |
| 661512 | MAJ | METAL OB | AWP | X | | | CUBI PT 110147Z SEP 79 | |

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| 661523 | MAJ | UNK | BCM | X | | | HAMS 13 092116Z NOV 79 | PJ5-926527 |
| 677320 | MAJ | UNK | BCM | | X | | CORAL SEA 082244Z NOV 79 | |
| 677103 | MIN | SUSP NON-SKID | REP | | X | | " " " " | PJ5-927414 |
| 661422 | MAJ | UNK | I/W | X | | | WHIDBEY ISL 090030Z NOV 79 | |
| 661507 | MAJ | UNK | RFI | X | | | " " " " | |
| 677436 | MAJ | UNK | I/W | X | | | " " " " | |
| 677164 | MAJ | UNK | BCM | | | X | HAMS 24 090240Z NOV 79 | |
| 677186 | | SUSP INT MAT FAIL | | X | | | ATKRON 75 102317Z OCT 79 | |
| 650614 | | UNK | | | X | | NIMITZ 110732Z OCT 79 | |
| 661229 | | UNK | | X | | | ATKRON 42 111805Z OCT 79 | |
| 677545 | | UNK | | X | | | ATKRON 176 140047Z OCT 79 | |
| 677441 | MAJ | SUSP NON-SKID | | X | | | * 791103 5 08150 | |
| 661073 | MAJ | UNK | BCM | | X | | KITTY HAWK 700001Z OCT 79 | |

* UNSATISFACTORY REPORT FILE, RECORD IDENT

TEST CELL
SHIP
SHORE

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|--------------------------------|------|-------|------|-----------|--------------------------|------------|
| 650640 | MAJ | RAGS | | X | | | ATKRON 95 101935Z DEC 79 | |
| 677315 | MIN | SUSP BOLT | | X | | | " 128 272116Z NOV 79 | |
| 677303 | MAJ | UNK | | X | | | " 165 292006Z NOV 79 | |
| 661185 | MAJ | OAT PROBE COVER | | X | | | * 791125 4 0101 | AD4-932939 |
| 677474 | | UNK | | | X | | NIMITZ 161632Z NOV 79 | AB4-931202 |
| 677076 | | BULLET ASSY BRKT & SAFETY WIRE | | | X | | NIMITZ 161633Z NOV 79 | |
| 661186 | | TEMP PROBE COVER RETAINING PIN | | X | | | ATKRON 65 270419Z NOV 79 | |
| 661107 | | BIRD | | X | | | * 791203 3 0201 | FB4- |

* MISHAP REPORT, RECORD IDENT

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TEST CELL
SHIP
SHORE

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----------------|-------|------|-------|------|-----------|-----------------------------|-------------|
| 660956 | MAJ | SCREW | | | X | | KITTY HAWK 081131Z JAN 80 | PB3-936558 |
| 661136 | MAJ | UNK | | | X | | " 072258Z JAN 80 | PC5-002376 |
| 661081 | MAJ | UNK | | X | | | ATKRON 95 260222Z JAN 80 | PC5-002372 |
| 661276 | MAJ | UNK | | X | | | " " 260600Z JAN 80 | |
| 677489 | MAJ | UNK | | X | | | " " " | |
| 650603 | MAJ | UNK | I/W | | X | | ATKRON 128 051607Z FEB 80 | |
| 661502 | MAJ | UNK | | | X | | " 165 301603Z JAN 80 | |
| 660662 | MAJ | RAG | | | X | | CORAL SEA 130410Z JAN 80 | PJ5-001145 |
| 661487 | MAJ | UNK | | | X | | " 211414Z JAN 80 | PJ5-001575 |
| 600873 | MAJ | UNK | | | X | | KITTY HAWK 090850Z FEB 80 | PB3-0031439 |
| 661529 | UNK | UNK | | X | | | COMMATWING 1 081845Z JAN 80 | |
| 677582 | UNK | UNK | | | X | | ATKRON 65 13702Z JAN 80 | |
| 661357 | NOSE TIRE TREAD | | | X | | | " 85 271435Z JAN 80 | AF5-002539 |
| 677507 | UNK | | | X | | | " " " | |
| 678317 | UNK | | | X | | | * 800106 3 0301 | |
| 660709 | MAJ | UNK | | X | | | * 800129 3 0701 | FA9-002997 |
| 696924 | SUSP BOLT | | | X | | | ** 800125 5 16120 | |

* MISHAP REPORT FILE, RECORD IDENT
** UNSATISFACTORY REPORT FILE, RECORD IDENT

SHORE SHIP TEST CELL

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|------------------|------|-------|------|-----------|--------------------------|------------|
| 661589 | MAJ | UNK | | | X | | NIMITZ 240816Z FEB 80 | |
| 661015 | MAJ | UNK | | X | | | ATKRON 95 041635Z FEB 80 | |
| 661371 | | NOSE TIRE TREAD | | | X | | " 85 051319Z FEB 80 | |
| 661640 | | UNK | AWM | | X | | " 42 081200Z FEB 80 | |
| 677069 | | UNK | RFI | X | | | " 65 092047Z FEB 80 | |
| 677581 | | ICE | RFI | X | | | " " 092049Z FEB 80 | |
| 677058 | | ICW | RFI | X | | | " " " | |
| 661589 | | UNK | | | X | | NIMITZ 240816Z FEB 80 | |
| 661516 | | AURAL PROTECTORS | | X | | | * 800221 3 1101 | FA9-005245 |

* MISHAP REPORT FILE, RECORD IDENT

J52-P8A/B
MAR 1980

TEST CELL
SHIP
SHORE

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|--------------|------|-------|------|-----------|--------------------------|-------------|
| 677438 | MAJ | UNK | | X | | | HAMS 13 080112Z MAR 80 | GF7-0065174 |
| 661334 | MAJ | INT MAT FAIL | | X | | | " 060010Z MAR 80 | GF7-0063A00 |
| 677162 | | UNK | | X | | | ATKRON 42 192010Z MAR 80 | |
| 677254 | | UNK | | | X | | " 85 310145Z MAR 80 | |
| 677164 | | UNK | | | X | | * 800329 3 0201 | AF5-008910 |

* MISHAP REPORT FILE, RECORD IDENT

* UNSATISFACTORY REPORT FILE, RECORD IDENT

TEST CELL
SHIP
SHORE

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|------------------|------|-------|------|-----------|------------------------------|-------------|
| 660753 | MAJ | SAND, GRIT | BCM | | X | | CTV 70 160330Z MAY 80 | |
| 661531 | MAJ | UNK | BCM | | X | | CONSTELLATION 050338Z MAY 80 | |
| 661091 | MAJ | BULLET ASSY CLIP | | X | | | AIRTEVRON 5 192017Z MAY 80 | P22-0133442 |

TEST CELL
SHIP
SHORE

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REF

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CAT

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| | | | | | | |
|--------|-----|--------------|-----|---|--------------------------|--|
| 661015 | MAJ | INT MAT FAIL | BCM | X | RANGER 080459 JUN 80 | |
| 677148 | MAJ | WIRE | I/W | X | ATKRON 95 112130Z JUN 80 | |
| 660718 | MAJ | UNK | BCM | X | " 65 180843Z JUN 80 | |
| 661624 | MAJ | BOLT | BCM | X | RANGER 180927Z JUN 80 | |
| 660959 | MAJ | UNK | BCM | X | ATKRON 65 260657Z JUN 80 | |
| 660921 | | RAG | BCM | X | " 34 152159Z JUN 80 | |
| 677525 | | UNK | | X | NORVA 242106Z JUN 80 | |
| 660831 | | UNK | AWM | X | ATKRON 35 241945Z JUN 80 | |
| 660977 | | UNK | I/W | X | " 42 251210Z JUN 80 | |
| 661371 | | UNK | AWM | X | " " 261216Z JUN 80 | |

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TEST CELL
SHIP
SHORE

JCN

REF

DISP

CAUSE

CAT

S/N

| | | | | | | |
|--------|-----|-----------------|-----|---|---------------------------|--|
| 677576 | MAJ | UNK | BCM | X | EISENHOWER 040437Z SEP 80 | |
| 650646 | MIN | UNK | | X | ATKRON 52 192356Z SEP 80 | |
| 661343 | MAJ | SML MTL OBJ | | X | " " 261532Z SEP 80 | |
| 661077 | MAJ | SML MTL OBJ | | X | " " 221448Z SEP 80 | |
| 677578 | MAJ | UNK | | X | MIDWAY 111448Z SEP 80 | |
| 677310 | MIN | UNK | | | VMA AW 121 192109Z SEP 80 | |
| 650622 | MAJ | WOOD | I/W | X | WHIDBEY 092041Z OCT 80 | |
| 661174 | MAJ | RUBBER | AWP | | " " " | |
| 661404 | MAJ | GRAVEL | AWP | | " " " | |
| 677415 | MAJ | GRAVEL | I/W | | " " " | |
| 650645 | | UNK | | X | NIMITZ 131110Z SEP 80 | |
| 677372 | | CHAIN BAG STRAP | | X | " 141819Z SEP 80 | |
| 695404 | | CALFAX | | X | FTTRON 101 151310Z SEP 80 | |
| 679340 | MIN | UNK | | X | " 143 160522Z SEP 80 | |
| 687086 | MAJ | UNK | | X | EISENHOWER 161120Z SEP 80 | |

TEST CELL
SHIP
SHORE

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | REF | JCN |
|--------|-----|----------------------|-------|-------|------|---------------------------|-----|
| 650654 | MAJ | UNK | BCM | | X | EISENHOWER 060705Z OCT 80 | |
| 660594 | | BLEED VALVE STOP PIP | | | X | ATKRON 34 061803Z OCT 80 | |
| 677179 | | UNK | | X | | " 42 061838Z OCT 80 | |
| 660693 | MAJ | UNK | BCM | | X | EISENHOWER 090615Z OCT 80 | |
| 650566 | | STOPPINS | BCM 7 | | X | ATKRON 34 251325Z OCT 80 | |
| 687144 | | SUSP FASTENER | | | X | FITRON 143 251345Z OCT 80 | |
| 677460 | | UNK | | | X | ATKRON 85 291936Z OCT 80 | |
| 661426 | | UNK | AWM | X | | " 42 312025Z OCT 80 | |
| 660841 | | BIRD | | X | | * 801125 3 050; | PE8 |

* MISHAP REPORT FILE, RECORD IDENT

J52-P8A/B
NOV 1980

TEST CELL
SHIP
SHORE

JCN

REF

DISP

CAUSE

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| | | | | | |
|--------|-----------------|-------|---|---------------------------|--|
| 660820 | UNK | BCM 7 | X | ATKRON 85 051610Z NOV 80 | |
| 660937 | EXT MAT FAIL | AWM | X | " 42 061800Z NOV 80 | |
| 677360 | INT MAT FAIL | | X | EISENHOWER 081312Z NOV 80 | |
| 661347 | VANCO LIGHT TIP | RFI | X | ATKRON 176 112157 NOV 80 | |
| 677124 | UNK | | X | " 42 132100Z NOV 80 | |
| 650607 | UNK | | X | " 85 251811Z NOV 80 | |

J52-P8A/B
DEC 1980

TEST CELL
SHIP
SHORE

JCN

REF

DISP

CAUSE

CAT

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|--------|------------------|--|--|--|--|--|----------------------------|-----|--|
| 661410 | WASHER | | | | | | ATKRON 176 080714Z DEC 80 | | |
| 661167 | BLEED VALVE PINS | | | | | | " 75 111602Z DEC 80 | | |
| 677562 | UNK | | | | | | " 176 130832Z DEC 80 | | |
| 677165 | BIRD | | | | | | VMAT AW 202 171712Z DEC 80 | FB4 | |

J52-P408
JUN-JUL 1979

TEST CELL
SHIP
SHORE

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|----------------|------|-------|------|-----------|------------------------------|-------------|
| 678245 | MIN | UNK | | | X | | KITTY HAWK 162201Z JUN 79 | P65-9157372 |
| 678351 | MAJ | UNK | | X | | | TACLE RON 133 192306Z JUN 79 | |
| 678280 | MAJ | UNK | | X | | | " " 192307Z JUN 79 | |
| 678493 | | SUSP NON-SKID | BCM | | X | | * 790608 3 0101 | P65-915930 |
| 678226 | MAJ | SUSP NON-SKID | BCM | | X | | * 790614 3 0201 | P65-916517 |
| 678451 | MAJ | UNK | BCM | X | | | YUMA 061429Z JUN 79 | |
| 678199 | MIN | UNK | RFI | | X | | RANGER 040245Z JUN 79 | |
| 678365 | MAJ | UNK | BCM | | X | | RANGER 130357Z JUL 79 | |
| 678480 | MAJ | LOCKWIRE | RFI | | X | | RANGER 201427Z JUL 79 | P679213347 |
| 678157 | MAJ | SUSP METAL OBJ | | | X | | KITTY HAWK 220723Z JUL 79 | P65-919838 |
| 678270 | MIN | UNK | | X | | | WHIDBEY ISL 091914Z AUG 79 | |
| 678443 | MIN | UNK | | X | | | " " " | |
| 678245 | MAJ | SUSP NON-SKID | | | X | | KITTY HAWK 090250Z JUL 79 | |

J52-P408
AUG-OCT 1979

TEST CELL
SHIP
SHORE

| S/N | CAT | CAUSE | DISP | SHIP | SHORE | REF | JCN |
|--------|-----|----------------|------|------|-------|-----------------------------|------------|
| 678322 | MAJ | BIRD | BCM | X | | HAMS 13 092341Z AUG 79 | |
| 678550 | MAJ | UNK | BCM | X | | HAMS 12 090737Z AUG 79 | |
| 678532 | MAJ | SUSP TAPE BALL | BCM | | X | RANGER 181107Z AUG 79 | |
| 678447 | MAJ | GRAVEL | BCM | X | | HAMS 13 062313Z SEP 79 | |
| 678390 | MAJ | EXT MAT FAIL | BCM | X | | " " " | |
| 664238 | | UNK | | X | | ATKRON 205 311710Z AUG 79 | |
| 678499 | MAJ | METAL OBJ | REP | X | | CUBI PT 220157Z OCT 79 | P65-925429 |
| 678191 | MAJ | UNK | AWP | X | | WHIDBEY ISL 032006Z OCT 79 | |
| 678392 | MAJ | INT MAT FAIL | | | X | KITTY HAWK 210503Z OCT 79 | P65-927815 |
| 678236 | | UNK | | | X | TACELRON 133 010446Z OCT 79 | |

TEST CELL
SHIP
SHORE

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|-------------------------------|------|-------|------|-----------|-----------------------------|------------|
| 678239 | MAJ | UNK | | X | | | TACELRON 129 050054Z JAN 80 | QHO-934428 |
| 678507 | MAJ | NOSE WHL DOWN LOCK SAFETY PIN | | X | | | " " 040556Z JAN 80 | |
| 678450 | MAJ | AT3 | | | X | | NIMITZ 221430Z DEC 79 | |
| 664228 | | BIRD STRIKE | | X | | | ATKRON 174 191914Z DEC 79 | |

J52-P408

JAN/FEB/MAR 1980

JCN

REF

DISP

CAUSE

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SHORE
SHIP
TEST CELL

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|--------|-----|-----------------------|--|---|---|-----------------------------|-------------|
| 696924 | MAJ | SUSP STONE OR BOLT | | X | | TACELRON 136 182239Z JAN 80 | P66-0016442 |
| 678305 | MAJ | RIVET HEAD | | X | | " 138 310123Z JAN 80 | P68-002849 |
| 678317 | MAJ | SUSP NON-SKID | | | X | KITTY HAWK 120618Z JAN80 | P65-000602 |
| 678241 | | SAFETY PIN & RFB FLAG | | X | | * 801022 3 0101 | |
| 678214 | MAJ | INT MAT FAIL | | | X | NIMITZ 101846Z FEB 80 | |
| 678169 | | UNK | | | X | TACELRON 133 061019Z FEB 80 | |
| 678427 | | UNK | | | X | " " 061047Z FEB 80 | |
| 678475 | MAJ | UNK | | X | | TACELRON 137 012200Z APR 80 | |
| 678599 | MAJ | SUSP GRAVEL | | X | | " 130 260115Z MAR 80 | |

* FLIGHT MISHAP REPORT, RECORD IDENT

JCN

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SHIP
SHORE
TEST CELL

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|--------|-----|-----------|-----|---|--|---|-----------------------------|--|--|
| 678405 | MAJ | TOOL | BCM | X | | | NIMITZ 041744Z MAY 80 | | |
| 678174 | MAJ | UNK | | X | | | TACELRON 138 071551Z APR 80 | | |
| 678454 | MAJ | METAL OBJ | I/W | X | | | WHIDBEY ISL 162146Z MAY 80 | | |
| 678522 | MAJ | WIRE | I/W | X | | | " " | | |
| 678475 | MIN | UNK | . | X | | | TACELRON 135 092233Z MAY 80 | | |
| 678316 | MAJ | UNK | BCM | | | X | EISENHOWER 090633Z JUL 80 | | |
| 678428 | MAJ | UNK | | X | | | TACELRON 137 181700Z JUN 80 | | |
| 696915 | MAJ | UNK | BCM | | | | ALAMEDA 101441Z JUL 80 | | |

TEST CELL
SHIP
SHORE

| S/N | CAT | CAUSE | DISP | SHIP | SHORE | REF | JCN |
|--------|-----|-------------------|------|------|-------|-----------------------------|-----|
| 678336 | MAJ | INT MAT FAIL | | X | | TACELRON 129 171606Z JUL 80 | |
| 678503 | MAJ | INT MAT FAIL | | | X | EISENHOWER 310507Z JUL 80 | |
| 678642 | | GRAVEL | | X | | TACELRON 133 162037Z JUL 80 | |
| 678316 | MAJ | UNK | | | X | EISENHOWER 090633Z JUL 80 | |
| 678279 | MAJ | GRAVEL | AWP | X | | TACELRON 129 121636Z AUG 80 | |
| 678191 | MAJ | UNK | BCM | | X | EISENHOWER 120744Z SEP 80 | |
| 678537 | MIN | UNK | | | X | TACELRON 132 161708Z SEP 80 | |
| 678437 | MAJ | e/8" or 5/16" NUT | BCM | | X | RANGER 231227Z SEP 80 | |

J52-P408

OCT/NOV/DEC 1980

| S/N | CAT | CAUSE | DISP | TEST CELL | | REF | JCN |
|--------|-----|---------------------------|------|-----------|------|-----------------------------|------------|
| | | | | SHORE | SHIP | | |
| 678190 | | SAFETY PIN WITH FLAG | | | X | TACELRON 138 061759Z OCT 80 | |
| 678417 | | UNK | | | X | EISENHOWER 110718Z OCT 80 | |
| 696904 | | UNK | BCM | X | | * 801020 3 0201 | FA5-029560 |
| 678241 | | RACK SAFETY PIN WITH FLAG | | X | | * 801022 3 0101 | FAG-029659 |
| 678522 | | UNK | | | X | TACELRON 130 041227Z DEC 80 | |

TEST CELL
SHIP
SHORE

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|--------------|------|-------|------|-----------|------------------------|-----|
| 262067 | UNK | | | X | | | HMH 462 291858Z JUN 79 | |
| 262176 | MAJ | UNK | | | | | HAMS 16 082346Z JUN 79 | |
| 262322 | MAJ | INT MAT FAIL | BCM | X | | | HMH 462 202303Z DEC 79 | |

TEST CELL
SHIP
SHORE

JCN

REF

DISP

CAUSE

CAT

S/N

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|--------|-----|---------------|--|--|-----|---|--|------------------------|--|--|
| 262301 | MAJ | UNK | | | | X | | HMH 462 090341Z FEB 80 | | |
| 262058 | MAJ | UNK | | | AWP | X | | HMT 301 181742Z JAN 80 | | |
| 262298 | MAJ | SUSP INT FAIL | | | | X | | HMH 361 031716Z MAR 80 | | |
| 262258 | MAJ | UNK | | | | X | | HMT 301 101819Z MAR 80 | | |
| 262390 | MAJ | UNK | | | | X | | " " 281804Z FEB 80 | | |
| 262155 | MAJ | 12" ELEC WIRE | | | | X | | HMH 462 072227Z MAR 80 | | |
| 262290 | MAJ | SML METAL OBJ | | | BCM | X | | HMH 361 102300Z JUL 80 | | |
| 262061 | MAJ | UNK | | | BCM | X | | " 363 142351Z JUL 80 | | |
| 262043 | MAJ | UNK | | | | X | | " " 252317Z AUG 80 | | |
| 262290 | MAJ | SML METAL OBJ | | | | X | | " 361 102300Z JUL 80 | | |
| 262196 | MAJ | INT MAT FAIL | | | AWP | X | | " 363 072314Z AUG 80 | | |
| 262043 | MAJ | UNK | | | I/W | X | | " " 142350Z JUL 80 | | |
| 262069 | MAJ | METAL OBJ | | | I/W | X | | " " 042316Z AUG 80 | | |

SHORE
SHIP
TEST CELL

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DISP

CAUSE

CAT

S/N

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|--------|-----|-------------------------------|-----|---|--|--|------------------------|--|--|
| 264320 | MAJ | SUSP EXT MAT FAIL | | X | | | HMH 361 270830Z AUG 79 | | |
| 264226 | | SUSP INT MAT FAIL | | X | | | HMH 361 070841Z NOV 79 | | |
| 264279 | MAJ | UNK | BCM | X | | | HMM 165 232120Z NOV 79 | | |
| 264322 | MAJ | SUSP PEBBLES | REP | X | | | " 112230Z NOV 79 | | |
| 264401 | MIN | EXT MAT FAIL | | X | | | HMH 361 070842Z NOV 79 | | |
| 264237 | MAJ | UNK | AWP | X | | | HAMS 24 050206Z DEC 79 | | |
| 264226 | MAJ | INT MAT FAIL | AWP | X | | | HMH 363 200757Z DEC 79 | | |
| 264233 | MAJ | UNK | BCM | X | | | " 180837Z DEC 79 | | |
| 264150 | | UNK | | X | | | HMH 362 161136Z JAN 80 | | |
| 264291 | MAJ | SUSP INT MAT FAIL | | X | | | HMH 463 172120Z APR 80 | | |
| 264405 | | METAL PARTICLES FROM GEAR BOX | BCM | X | | | HMH 363 202322Z AUG 80 | | |

TEST CELL
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SHORE

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CAUSE

CAT

S/N

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|--------|-----|-------------------|-----|---|---|--|-----------------------------|------------|--|
| 401608 | MAJ | SUSP BOLT | BCM | X | | | YUMA 052054Z JUL 79 | | |
| 421489 | MAJ | UNK | BCM | X | | | MAG 11 102357Z JUL 79 | | |
| 421863 | MAJ | UNK | BCM | | X | | " " " | GFB-915490 | |
| 421140 | MAJ | 10/32" SCREW | | X | | | MAG 11 312054Z JUL 79 | | |
| 401912 | MAJ | BOLT | BCM | X | | | VMFB 3 252012Z JUL 79 | GFB-920544 | |
| 421016 | MAJ | SAFETY PIN | BCM | X | | | VMFB 314 202156Z JUL 79 | | |
| 401413 | | UNK | | | X | | WASH D.C. 031401Z JUL 79 | SBO-915775 | |
| 401988 | MAJ | UNK | BCM | X | | | YUMA 061429Z JUN 79 | | |
| 401127 | MAJ | UNK | BCM | X | | | YUMA 021421Z AUG 79 | | |
| 421013 | | SCREWS | BCM | X | | | VMFB 3 DET 2 300639Z AUG 79 | | |
| 401737 | MAJ | SUSP INT MAT FAIL | | X | | | VMFA 314 282305Z AUG 79 | GE7-923543 | |
| 401955 | MAJ | UNK | | X | | | VMFA 531 160126Z AUG 79 | | |
| 421835 | MIN | UNK | | X | | | VMFA 314 062252Z AUG 79 | | |
| 401667 | MAJ | UNK | | X | | | VMFA 314 061748Z AUG 79 | | |
| 401681 | | BIRD STRIKE | | | X | | FITRON 171 132024Z AUG 79 | | |
| 401132 | MAJ | UNK | BCM | X | | | HAMS 15 120242Z SEP 79 | | |

TEST CELL
SHIP
SHORE

| S/N | CAT | CAUSE | DISP | SHIP | SHORE | REF | JCN |
|--------|-----|---------------|------|------|-------|----------------------------|-------------|
| 421533 | MAJ | UNK | BCM | X | | MAG 11 102259Z SEP 79 | |
| 401955 | MAJ | UNK | BCM | X | | " " " | |
| 401791 | | SUSP RIVET | | X | | * 791005 5 21000 | SBO-9265341 |
| 421358 | MAJ | METAL OBJ | BCM | X | | VMFP 3 051856Z OCT 79 | |
| 401242 | MAJ | UNK | | | X | MAG 11 022337Z NOV 79 | |
| 401301 | MAJ | SUSP RAG | BCM | X | | " 090052Z NOV 79 | |
| 421642 | MAJ | UNK | BCM | | X | " 090053Z NOV 79 | |
| 421305 | MAJ | SUSP NON-SKID | BCM | | X | | |
| 401333 | MAJ | UNK | BCM | | X | VMFA 531 181537Z OCT 79 | |
| 401303 | MAJ | UNK | BCM | X | | MAG 11 091715Z NOV 79 | |
| 421956 | MAJ | UNK | BCM | X | | " " " | |
| 421585 | MAJ | UNK | BCM | | X | " " " | |
| 421694 | MAJ | UNK | | X | | TACELRON 33 031611Z OCT 79 | BBO-927508 |
| 422004 | | SUSP RIVET | BCM | X | | WASH DC 111734Z OCT 79 | |
| 421715 | MAJ | UNK | REP | | | CUBI PT. 082317Z NOV 79 | |

* UNSATISFACTORY REPORT FILE, RECORD IDENT

TEST CELL
SHIP
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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|--------------------|------|-------|------|-----------|--------------------------|-------------|
| 401440 | MAJ | SUSP INT MAT FAIL | BCM | X | | | MAG 11 141830Z NOV 79 | KB2-931442 |
| 401513 | | BIRD | | X | | | * 791110 3 0501 | |
| 401736 | | UNK | | X | | | * 791116 3 0901 | KB2-932045 |
| 421853 | MAJ | UNK | | X | | | CORAL SEA 171024Z DEC 79 | |
| 401928 | | TEST CELL HARDWARE | | | X | | KEY WEST 042214Z DEC 79 | |
| 401635 | | UNK | | X | | | ** 800107 5 18100 | GE7-9337A00 |

* MISHAP REPORT FILE, RECORD IDENT
** UNSATISFACTORY REPORT FILE, RECORD IDENT

TEST CELL
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| S/N | CAT | CAUSE | DISP | SHIP | TEST CELL | REF | JCN |
|--------|-----|------------|-------|------|-----------|--------------------------|------------|
| 401828 | MAJ | UNK | BCM-7 | X | | YUMA 181651Z JAN 80 | |
| 401598 | MAJ | SAFETY PIN | BCM | | X | CORAL SEA 140602Z JAN 80 | |
| 401491 | MAJ | BOLT | BCM | | X | " 141144Z JAN 80 | |
| 422009 | | UNK | BCM | | | WASH DC 082101Z JAN 80 | SBO-933375 |
| 421373 | MAJ | UNK | | X | | VMFA 314 132235Z FEB 80 | |
| 421927 | MAJ | UNK | BCM-7 | X | | YUMA 221600Z FEB 80 | GQ2-004947 |
| 421792 | | UNK | | X | | KEY WEST 041812Z FEB 80 | KB1-001027 |
| 422072 | | UNK | | | | * 800620 5 18241 | |

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|--------|-----|----------------|-----|---|---|--------------------------|--|-------------|
| 401304 | MAJ | SUSP GRAVEL | | X | | VMFA 314 100047Z APR 80 | | |
| 401209 | MAJ | UNK | | X | | " 100041Z APR 80 | | |
| 401298 | MAJ | RIVET | | | X | CORAL SEA 031410Z APR 80 | | GB8-008748 |
| 421965 | MAJ | EXT MAT FAIL | RFI | | X | " 221954Z MAR 80 | | |
| 401962 | MAJ | HARD ROUND OBJ | | | X | " 161524Z MAR 80 | | |
| 401470 | | UNK | BCM | X | | WASH D.C. 101303Z MAR 80 | | SBO-0038317 |
| 401520 | | UNK | BCM | X | | " " | | |
| 421711 | MAJ | UNK | | X | | MAG 15 060253Z MAY 80 | | |
| 401525 | MAJ | SUSP FASTENER | | X | | " 110237Z APR 80 | | |
| 421196 | MAJ | BOLT OR SCREW | | | X | CORAL SEA 041558Z APR 80 | | |
| 401298 | | UNK | | | X | " 032036Z APR 80 | | |
| 421762 | | UNK | BCM | | | WASH D.C. 092003Z MAY 80 | | SBO-011357 |

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|--------|-------------------|-----|---|---|--------------------------|------------|
| 421316 | SUSP INT MAT FAIL | | X | | * 800506 3 0401 | SBO-012794 |
| 401671 | 1/2" CARBON CHUNK | RFI | X | | CUBI PT 020417Z JUN 80 | |
| 421890 | UNK | BCM | | X | MIDWAY 121416Z JUN 80 | |
| 421668 | UNK | | X | | YUMA 242345Z JUN 80 | |
| 421922 | UNK | | X | | VMFA 323 241439Z JUN 80 | |
| 421033 | UNK | I/W | X | | KEY WEST 031432Z JUN 80 | |
| 401722 | INT MAT FAIL | I/W | X | | " " " | |
| 401998 | UNK | BCM | X | | WASH D.C. 091432Z JUN 80 | |
| 401477 | SUSP GRAVEL | | X | | ** 800620 5 18241 | |
| 421601 | UNK | | X | | * 800608 4 0401 | KBA |

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TEST CELL
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| S/N | CAT | CAUSE | DISP | SHIP | TEST CELL | REF | JCN |
|--------|-----|-----------------------|-------|------|-----------|--------------------------|-----|
| 421861 | MAJ | INT MAT FAIL | BCM-7 | X | | YUMA 050013Z AUG 80 | |
| 401246 | MAJ | BOLT | BCM | X | | VMFA 531 242359Z JUL 80 | |
| 401178 | MAJ | SCREEN | BCM | | | MIRAMAR 080007Z AUG 80 | |
| 422080 | MIN | UNK | REP | | | " " | |
| 421281 | MAJ | UNK | BCM | | | " " | |
| 401477 | | UNK | BCM | X | | WASH D.C. 021918Z JUL 80 | |
| 401732 | MAJ | INFLIGHT, MIDAIR COLL | BCM | X | | VMFP 3 101703Z SEP 80 | |
| 421782 | MAJ | SCREW | BCM-7 | X | | YUMA 200101Z AUG 80 | |
| 421784 | MAJ | SMALL PIN OR BOLT | BCM | X | | VMFA 314 280007Z AUG 80 | |
| 401783 | | CONCRETE | I/W | X | | KEY WEST 011258Z AUG 80 | |

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|--------|-----|-------------------|-----|---|---------------------------|--|
| 421852 | MAJ | UNK | BCM | X | VMFA 314 181811Z SEP 80 | |
| 421977 | MAJ | SCREW OR BOLT | BCM | X | " 323 081507Z SEP 80 | |
| 421691 | MAJ | SUSP EXT MAT FAIL | BCM | X | " 531 110009Z SEP 80 | |
| 401823 | | UNK | I/W | X | FITRON 171 221715Z OCT 80 | |
| 421266 | | INT MAT FAIL | | X | FITRON 171 041938Z DEC 80 | |
| 401485 | | NUTS/BOLTS | | X | " 311833Z DEC 80 | |

| S/N | CAT | CAUSE | DISP | SHIP | | | REF | JCN |
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| | | | | SHORE | SHIP | TEST CELL | | |
| 433118 | MAJ | SCREW FASTENER | | X | | | AIRTEVRON 4 192124Z JUN 79 | |
| 433439 | MAJ | UNK | BCM | | X | | RANGER 051749Z JUN 79 | |
| 448076 | MAJ | UNK | | X | | | CUBI PT. 060141Z JUN 79 | |
| 433830 | | UNK | CER | X | | | HAMS 31 091414Z JUL 79 | |
| 433742 | MAJ | UNK | BCM | X | | | YUMA 061429Z JUN 79 | |
| 448296 | MAJ | UNK | BCM | | X | | CUBI PT. 110507Z JUN 79 | |
| 433765 | MAJ | INT MAT FAIL | BCM | X | | | HAMS 15 070425Z JUN 79 | |
| 448422 | MAJ | BOLT OR SCREW | BCM | | X | | RANGER 141117Z JUN 79 | |
| 448189 | MAJ | UNK | AWM | X | | | CUBI PT. 110557Z JUL 79 | |

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|--------|-----|-----------------|-----|---|--------------------------|--|-------------|
| 448422 | MAJ | BOLT OR SCREW | BCM | X | RANGER 130357Z JUL 79 | | |
| 448316 | MAJ | UNK | BCM | X | YUMA 021421Z AUG 79 | | |
| 433878 | MAJ | SHARP EDGED OBJ | | X | MIDWAY 200050Z JUL 79 | | |
| 433599 | MAJ | UNK | | X | CUBI PT 140723Z JUL 79 | | |
| 448307 | MAJ | STONES/SAND | AWM | X | FITRON 31 011300Z AUG 79 | | |
| 433933 | MAJ | " " | AWM | X | " " | | |
| 433853 | MAJ | UNK | | | * 790726 5 13480 | | A8K-9192658 |
| 433463 | MAJ | SCREW OR BOLT | | X | MIDWAY 020338Z JUL 79 | | |
| 448016 | MIN | UNK | BCM | X | ATSUGI 130644Z AUG 79 | | |
| 433322 | MAJ | UNK | BCM | X | HAMS 15 100049Z AUG 79 | | |

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TEST CELL

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|--------|-----|--------------------------------------|-----|---|---|---------------------------|--|------------|
| 448316 | MAJ | UNK | BCM | X | | YUMA 021421Z AUG 79 | | |
| 433322 | MAJ | UNK | BCM | X | | HAMS 15 100049Z AUG 79 | | |
| 433840 | MAJ | SUSP e/8" NUT | BCM | | X | MIDWAY 310026Z AUG 79 | | |
| 448093 | MAJ | BOLT | BCM | | X | " 270006Z AUG 79 | | |
| 433227 | MAJ | RUBBER MOLDING FROM INTAKE SCREEN | BCM | | X | RANGER 190915Z AUG 79 | | |
| 433429 | MAJ | BIRD | AWM | | X | MIDWAY 162342Z AUG 79 | | |
| 433187 | MIN | SUSP METAL OBJ | BCM | | X | ATSUGI 150210Z AUG 79 | | |
| 44016 | MAJ | SUSP STONE | BCM | | X | MIDWAY 100648Z AUG 79 | | |
| 433741 | MIN | UNK | | | X | FITRON 103 071048Z AUG 79 | | |
| 433161 | | LAU 17 SAFETY PIN | | | X | VMFA 451 101621Z AUG 79 | | |
| 448358 | | " " | | | X | FITRON 103 211904Z AUG 79 | | |
| 448184 | | SUSP BOLT OR SCREW | | | X | " 74 301632Z AUG 79 | | |
| 433757 | | SUSP FASTENER | | | X | * 790815 3 0701 | | FEA-922720 |
| 448364 | MAJ | BOLT/SCREW | BCM | | X | MIDWAY 061030Z SEP 79 | | |

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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|----------------|------|-------|------|-----------|-------------------------|------------|
| 448364 | MAJ | BOLT OR SCREW | BCM | | X | | MIDWAY 061030Z SEP 79 | GNS-924877 |
| 433548 | MAJ | UNK | BCM | X | | | YUMA 202311Z SEP 79 | |
| 448046 | MAJ | 5/16" FASTENER | BCM | | X | | RANGER 140543Z SEP 79 | |
| 448212 | MAJ | UNK | | X | | | VMFA 211 101740Z SEP 79 | |
| 448315 | | UNK | | X | | | " 251 071821Z SEP 79 | |
| 433865 | | UNK | | | X | | * 791008 2 0801 | |
| 433187 | MAJ | UNK | BCM | | X | | MIDWAY 100516Z OCT 79 | |

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|--------|-----|---------------------------|--|--|-------|---|---|--|--------------------------|--|--|
| 421956 | MAJ | UNK | | | | X | | | VMFA 314 242044Z OCT 79 | | |
| 433598 | MAJ | SUSP METAL OBJ | | | | X | | | " 232 240304Z OCT 79 | | |
| 448438 | MAJ | BIRD STRIKE | | | | X | | | " 121 262040Z OCT 79 | | |
| 448304 | MAJ | SAFETY PIN | | | BCM | | X | | MIDWAY 271314Z OCT 79 | | |
| 433815 | MAJ | CENTERLINE SAFETY PIN | | | | | X | | " 310130Z OCT 79 | | |
| 433840 | MAJ | SCREW | | | REP | | | | CUBI PT 082317Z NOV 79 | | |
| 448350 | MAJ | UNK | | | | X | | | YUMA 101 012310Z NOV 79 | | |
| 433956 | MIN | SUSP NON-SKID | | | | | X | | MIDWAY 010706Z NOV 79 | | |
| 433722 | | SECTION OF TURN-UP SCREEN | | | | X | | | VMFA 122 011900Z OCT 79 | | |
| 433398 | | PIECE OF ALUMINUM | | | | X | | | FITRON 74 101956Z OCT 79 | | |
| 448301 | | UNK | | | BCM-1 | | X | | " 11 131836Z OCT 79 | | |
| 433639 | | UNK | | | | X | | | " 31 262023Z OCT 79 | | |
| 448279 | | UNK | | | | X | | | " 171 311605Z OCT 79 | | |
| 448084 | MAJ | UNK | | | AWP | | | | HAMS 24 090240Z NOV 79 | | |
| 448190 | MAJ | UNK | | | BCM | | X | | MIDWAY 081602Z NOV 79 | | |

TEST CELL
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SHORE

| S/N | CAT | CAUSE | DISP | SHIP | SHORE | REF | JCN |
|--------|-----|-------------------------|-------|------|-------|---------------------------|------------|
| 448126 | MAJ | INT MAT FAIL | REP | X | | VMFA 235 270137Z NOV 79 | |
| 433291 | MAJ | GROUNDING CABLE & CLAMP | BCM-1 | X | | VMFA 232 282332Z NOV 79 | |
| 433192 | MAJ | UNK | BCM-1 | X | | YUMA 292230Z NOV 79 | |
| 448178 | MAJ | METAL OBJ | | X | | FITRON 121 031820Z DEC 79 | |
| 433661 | MAJ | SMALL SOLID OBJECT | | | | CUBI PT 092347Z DEC 79 | |
| 448262 | | PANEL SCREW | | X | | " 451 022016Z NOV 79 | |
| 433890 | | UNK | | X | | " 251 021640Z NOV 79 | |
| 433725 | | UNK | | X | | " 451 022015Z NOV 79 | |
| 448183 | | SUSP SCREW | | X | | " 333 052059Z NOV 79 | FEA-926741 |
| 448379 | | UNK | | X | | NORVA 261256Z NOV 79 | FE8-931910 |
| 448016 | MAJ | THREADED OBJ | AWP | | | CUBI PT 092347Z DEC 79 | |
| 433227 | MAJ | LARGE SOLID OBJECT | AWP | | | " " " | |
| 433468 | MAJ | UNK | BCM-1 | X | | YUMA 071525Z DEC 79 | |

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| S/N | CAT | CAUSE | DISP | SHIP | SHORE | REF | JCN |
|--------|-----|--------------------------|-------|------|-------|--------------------------|-----|
| 433836 | MAJ | SUSP 1/4" SCREW OR BOLT | BCM | X | | MIDWAY 071822Z DEC 79 | |
| 433360 | MAJ | BOLT | BCM-1 | X | | YUMA 202327Z DEC 79 | |
| 433594 | MAJ | SUSP SMALL BOLT OR SCREW | BCM | X | | MIDWAY 220958Z DEC 79 | |
| 433355 | MAJ | BOLT OR SCREW | BCM | X | | " 152354Z DEC 79 | |
| 433639 | | UNK | | X | | SARATOGA 100605Z DEC 79 | |
| 448381 | | UNK | | X | | FITRON 11 132221Z DEC 79 | |
| 433483 | MAJ | BOLT | AWP | | | CUBI PT 160217Z JAN 80 | |
| 448304 | MAJ | SMALL METAL OBJ | AWP | | | " " " | |
| 448178 | MAJ | UNK | CER | X | | MIRAMAR 040136Z JAN 80 | |

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| S/N | CAT | CAUSE | DISP | SHIP | SHORE | REF | JCN |
|--------|-----|-------------------------------|------|------|-------|--------------------------|------------|
| 433392 | MAJ | INT MAT FAIL | BCM | X | | MIDWAY 050340Z FEB 80 | GN3-001870 |
| 448134 | MAJ | SUSP BOLT | BCM | X | | " 122246Z JAN 80 | |
| 433675 | MAJ | SUSP SCREW | BCM | X | | " 071008Z JAN 80 | |
| 433385 | MAJ | ORD PIN BAG WITH 4 SHRTG CAPS | BCM | X | | " 271814Z JAN 80 | |
| 433621 | MAJ | SUSP INT MAT FAIL | BCM | | X | VMFA 212 240550Z JAN 80 | |
| 433681 | MAJ | 1/4 x 28 BOLT | BCM | | X | " 451 210508Z JAN 80 | |
| 433799 | | UNK | | | X | FITRON 74 031124Z JAN 80 | |
| 433896 | | UNK | | | X | SARATOGA 070015Z JAN 80 | |
| 433995 | | UNK | | | X | VMFA 312 312136Z JAN 80 | |
| 433703 | | UNK | | | X | " " 312137Z JAN 80 | |
| 433817 | | UNK | | | X | " " 312135Z JAN 80 | |

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| S/N | CAT | CAUSE | DISP | HS | HS | EL | REF | JCN |
|--------|-----|----------------------------|-------|----|----|----|---------------------------|------------|
| 433543 | MAJ | METAL OBJ | | X | | | FITRON 121 051742Z MAR 80 | |
| 448386 | MIN | SUSP GRAVEL | REP | X | | | VMFA 235 072100Z FEB 80 | |
| 433624 | MAJ | UNK | BCM-7 | X | | | YUMA 231445Z FEB 80 | |
| 448245 | MAJ | UNK | BCM | X | | | YUMA 262201Z MAR 80 | |
| 433488 | MAJ | UNK | | X | | | " " " | |
| 448161 | | MAIN MOUNT FROM OTHER A/C | BCM-7 | | X | | FORESTAL 041905Z FEB 80 | |
| 448085 | | SUSP SCREW | BCM | X | | | * 800226 3 1001 | GB7-005719 |
| 433132 | MAJ | UNK | BCM | | | | CG 1st MAW 210804Z MAR 80 | |
| 433675 | MAJ | SAFETY WIRE & THREADED OBJ | | | | | CUBI PT 120007Z MAR 80 | |
| 433429 | MAJ | SCREW | REP | | | | " " " | |
| 433513 | MAJ | UNK | REP | | | | | |
| 433312 | MAJ | SCREW | BCM | | X | | MIDWAY 090912Z MAR 80 | |

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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|------------------|-------|-------|------|-----------|--------------------------|-------------|
| 433352 | MAJ | 1/4" BOLT | | X | | | YUMA 212345Z MAR 80 | |
| 433868 | MAJ | UNK | | X | | | " 111935Z MAR 80 | GQ1-0068107 |
| 448207 | MAJ | UNK | | X | | | VMFA 235 202356Z MAR 80 | GF3-007412 |
| 448124 | MAJ | BOLT OR SCREW | | X | | | MIDWAY 071146Z MAR 80 | |
| 433753 | MAJ | SUSP PANEL SCREW | | X | | | VMFA-232 132345Z MAR 80 | GB7 |
| 433999 | | UNK | BCM-7 | | X | | SARATOGA 070527Z MAR 80 | |
| 433149 | | SUSP SCREW | CER | X | | | VMFA 251 102011Z MAR 80 | |
| 433693 | | UNK | | X | | | FITRON 33 111335Z MAR 80 | |
| 448085 | MAJ | SUSP SCREWS | | X | | | VMFA 232 120110Z MAR 80 | |
| 433490 | | INT FAIL | BCM | | X | | FITRON 74 150501Z MAR 80 | |
| 433443 | | RIVET | AWP | X | | | VMFA 312 191341Z MAR 80 | |
| 448423 | | UNK | | X | | | FITRON 33 211957Z MAR 80 | |
| 448027 | | UNK | | X | | | " " 251645Z MAR 80 | |
| 433801 | | UNK | AWP | X | | | VMFA 122 252305Z MAR 80 | |
| 433865 | | UNK | | | X | | * 800313 3 1401 | AF1-007224 |

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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|----------------------|------|-------|------|-----------|---------------------------|-----|
| 433368 | MAJ | SUSP 10/32" SCREW | | X | | | FITRON 154 171800Z APR 80 | |
| 433892 | MAJ | INT MAT FAIL | BCM | X | | | ATSUGI 300702Z APR 80 | |
| 448069 | MAJ | UNK | | X | | | MAG 15 091033Z APR 80 | |
| 433109 | MIN | SUSP GRAVEL | | X | | | VMFA 235 252047Z APR 80 | |
| 433466 | MAJ | UNK | BCM | X | | | ATSUGI 120604Z MAY 80 | |
| 448011 | MAJ | UNK | BCM | X | | | " " " | |
| 433182 | | SUSP RIVET | AWP | X | | | VMFA 122 042318Z APR 80 | |
| 488174 | | FLASHLIGHT & GOGGLES | BCM | | X | | NAVSTA ROM 071406Z APR 80 | |
| 448232 | | UNK | | X | | | HAMS 31 072053Z APR 80 | |
| 433855 | | INT MAT FAIL | | | X | | FORRESTAL 101605Z APR 80 | |
| 433798 | | UNK | BCM | X | | | SARATOGA 112033Z APR 80 | |
| 448150 | | UNK | BCM | | X | | " 141138Z APR 80 | |
| 448315 | | UNK | AWP | X | | | VMFA 312 161601Z APR 80 | |

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|--------|-------------------|-------|---|---------------------------|--|
| 448125 | UNK | BCM | X | SARATOGA 042041Z MAY 80 | |
| 433619 | SUSP INT MAT FAIL | | | FITRON 171 211420Z MAY 80 | |
| 433673 | SUSP BOLT | AWP | X | VMFA 122 211351Z MAY 80 | |
| 433636 | UNK | BCM | X | MAG 24 090211Z MAY 80 | |
| 448430 | RIVET | | X | VMFA 232 100314Z MAY 80 | |
| 433885 | UNK | BCM | X | " " | |
| 433150 | UNK | BCM | X | VMFA 232 100313Z MAY 80 | |
| 433375 | UNK | BCM-7 | X | YUMA 090025Z MAY 80 | |
| 448313 | UNK | | X | FITRON 21 272035Z MAY 80 | |
| 433594 | UNK | BCM | X | HAMS 15 050021Z JUN 80 | |
| 433476 | UNK | BCM | X | " " | |
| 433592 | UNK | BCM | X | " " | |

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| S/N | CAT | CAUSE | DISP | SHIP | SHORE | REF | JCN |
|--------|-----|-----------------|-------|------|-------|--------------------------|-----|
| 448281 | MAJ | SMALL OBJ | RFI | X | | CUBI PT 020417Z JUN 80 | |
| 433227 | MAJ | 1/4 x 28 BOLT | RFI | X | | " " " | |
| 433336 | MAJ | SUSP BRONZE OBJ | | X | | FITRON 21 051535Z JUN 80 | |
| 448376 | MIN | SMALL ROCK | | X | | " 051635Z JUN 80 | |
| 448406 | MAJ | UNK | BCM-7 | X | | YUMA 032106Z JUL 80 | |
| 433629 | MAJ | UNK | BCM-7 | X | | " 212307Z JUN 80 | |
| 433260 | MAJ | SUSP RIVET | | X | | VMFA 212 232220Z JUN 80 | |
| 448074 | MAJ | UNK | BCM | X | | " 232 292345Z JUN 80 | |
| 433987 | MAJ | SUSP RIVET | | X | | " 235 301853Z JUN 80 | |
| 448123 | MAJ | UNK | BCM | X | | " 451 260312Z JUN 80 | |
| 433162 | | SUSP RIVETS | CER | X | | VMFA 122 041810Z JUN 80 | |

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| S/N | CAT | CAUSE | DISP | SHIP | TEST CELL | REF | JCN |
|--------|-----|-----------------------|-------|------|-----------|--------------------------|-----|
| 448155 | MAJ | BUSHING | BCM | X | | YUMA 061410Z AUG 80 | |
| 448326 | MAJ | GRAVEL | | X | | " 282100Z JUL 80 | |
| 433359 | MAJ | ROUND OBJ | BCM-7 | | X | MIDWAY 281118Z JUL 80 | |
| 448091 | MAJ | UNK | BCM | | X | MIDWAY 110650Z JUL 80 | |
| 433264 | MAJ | UNK | BCM | X | | VMFA 212 291815Z JUL 80 | |
| 448008 | MAJ | SML HRD OBJ | BCM | X | | " 232 250432Z JUL 80 | |
| 448395 | MAJ | I/R PROBE LOCKING LUG | BCM | X | | " 451 051811Z AUG 80 | |
| 448069 | MAJ | HARD METAL OBJ | | | | CUBI PT 060007Z AUG 80 | |
| 433296 | MAJ | BOLT OR SCREW | | | | " " " | |
| 448311 | | UNK | CER | X | | FITRON 74 121927Z JUL 80 | |
| 448232 | | UNK | | X | | VMFA 312 171431Z JUL 80 | |
| 448267 | | UNK | CER | X | | " " 311716Z JUL 80 | |

TEST CELL
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SHORE

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|--------------------|------|-------|------|-----------|---------------------------|-----|
| 448088 | | UNK | CER | X | | | VMFA 115 011750Z AUG 80 | |
| 433451 | | SUSP SCREW OR BOLT | | | X | | SARATOGA 0713572 AUG 80 | |
| 433851 | | UNK | CER | X | | | VMFA 312 191511Z AUG 80 | |
| 433327 | | UNK | | X | | | FITRON 171 221700Z AUG 80 | |
| 433309 | | INT MAT FAIL | | X | | | " " 281415Z AUG 80 | |
| 448282 | | UNK | | X | | | " " 291901Z AUG 80 | |
| 433358 | MAJ | SUSP ZEUS FASTENER | BCM | X | | | YUMA 152225Z AUG 80 | |
| 448048 | MAJ | SHRADER VALVE CAP | BCM | | X | | MIDWAY 201802Z AUG 80 | |
| 433931 | MAJ | UNK | RFI | X | | | VMFA 235 281335Z AUG 80 | |
| 448403 | MIN | UNK | AWM | | | | MAG 24 110236Z SEP 80 | |

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|--------|-----|-------------------|------|-------|------|-----------|---------------------------|-----|
| 433401 | MAJ | UNK | | X | | | FITRON 121 111642Z SEP 80 | |
| 433622 | MAJ | UNK | | X | | | " 154 232200Z SEP 80 | |
| 433249 | MIN | SMALL HARD OBJ | | X | | | VMFA 232 162213Z SEP 80 | |
| 433251 | | SUSP NON-SKID | | | X | | ROTA 050707Z SEP 80 | |
| 433722 | | UNK | | X | | | VMFA 312 251316Z SEP 80 | |
| 433134 | | UNK | | X | | | " " 251317Z SEP 80 | |
| 433393 | | UNK | | X | | | " " 301127Z SEP 80 | |
| 433694 | | SCREW | | X | | | * 801001 3 0201 | |
| 433457 | | SUSP CONCRETE | | X | | | FITRON 103 101429Z OCT 80 | |
| 433863 | | BIRD STRIKE | | X | | | " 171 101600Z OCT 80 | |
| 433147 | | UNK | | | X | | " 102 112202Z OCT 80 | |
| 433410 | | INTAKE SCREEN PIN | | X | | | VMFA 112 141900Z OCT 80 | |
| 433983 | | UNK | | X | | | " 312 282115Z OCT 80 | |

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|--------|-----|------------------|-------|---|---|---------------------------|-------------|--|
| 687238 | MAJ | UNK | | X | | FITRON 24 282215Z JUN 79 | | |
| 695547 | MAJ | UNK | | X | | KITTY HAWK 291253Z JUN 79 | | |
| 679282 | MAJ | SMALL METAL OBJ | | X | | FITRON 211 251920Z JUN 79 | | |
| 687285 | MAJ | CALFAX BARREL | | X | | " " 261645Z JUN 79 | | |
| 679540 | MAJ | LRG METAL OBJ | | X | | " " 131600Z JUN 79 | | |
| 695098 | MAJ | SUSP SMALL STONE | | X | | " 2 082158Z JUN 79 | | |
| 679407 | MIN | SMALL METAL OBJ | | X | | " 211 212330Z JUN 79 | | |
| 695563 | MAJ | UNK | | X | | MIRAMAR 121642Z JUL 79 | PE2-9158686 | |
| 695512 | MAJ | UNK | | X | | " " " | | |
| 679504 | | METAL OBJ | | X | | * 790718 5 15570 | PE2-9164401 | |
| 695135 | | UNK | | | X | AMERICA 010439Z JUL 79 | | |
| 679342 | | UNK | | | X | " " " | | |
| 687026 | | UNK | BCM-1 | | X | EISENHOWER 030854Z JUL 79 | | |
| 687063 | | UNK | | X | | FITRON 14 281855Z JUN 79 | | |

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| 695576 | MAJ | IFR BASKET BLADES | | X | | FITRON 124 061513Z AUG 79 | | |
| 679454 | MAJ | UNK | | | | " 24 272324Z JUL 79 | | |
| 674659 | MAJ | PIECES OF GUN ASSY | | X | | " 211 241818Z JUL 79 | | |
| 687135 | MAJ | CALFAX FASTENER | | X | | " 124 181556Z JUL 79 | | |
| 695041 | MAJ | FASTENER | REP | X | | " 24 251610Z JUL 79 | | |
| 695149 | MAJ | CALFAX FASTENER | | X | | " " 192130Z JUL 79 | | |
| 687109 | MIN | UNK | | X | | " " 192125Z JUL 79 | | |
| 687031 | MAJ | UNK | | X | | " " 172116Z JUL 79 | | |
| 687060 | MAJ | SUSP INT MAT FAIL | | X | | " 211 131927Z JUL 79 | | |
| 679340 | MAJ | UNK | | X | | " 1 122305Z JUL 79 | | |
| 679348 | MAJ | UNK | | X | | " 24 102231Z JUL 79 | | |
| 687000 | MAJ | UNK | BCM | X | | MIRAMAR 091439Z AUG 79 | | |
| 687012 | MAJ | METAL OBJ | REP | X | | " " " | | |
| 687238 | MAJ | METAL OBJ | BCM | X | | " " " | | |
| 695027 | | 20mm SHELL CASING | BCM | | X | FITRON 114 061537Z JUL 79 | | |
| 679266 | | UNK | RFI | X | | OCEANA 102040Z JUL 79 | | |
| 679263 | | CALFAX BARREL | | X | | FITRON 32 311731Z JUL 79 | | |
| 695547 | MAJ | UNK | | X | | KITTY HAWK 090250Z JUL 79 | | |

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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|-----------------------------|------|-------|------|-----------|---------------------------|------------|
| 695538 | MAJ | SMALL HARD OBJ | BCM | | X | | KITTY HAWK 020904Z AUG 79 | |
| 679506 | MIN | UNK | | X | | | FITRON 211 201613Z AUG 79 | |
| 695563 | MAJ | TWO METAL OBJ'S | | X | | | " 124 171825Z AUG 79 | |
| 679496 | MAJ | UNK | | X | | | PT MUGU 142246Z AUG 79 | |
| 679259 | MAJ | SUSP ICE | CER | X | | | MIRAMAR 072012Z SEP 79 | |
| 695576 | MAJ | IFR DROUGE BLADE | CER | X | | | " " " | |
| 695443 | MAJ | UNK | BCM | X | | | " " " | |
| 679445 | | LARGE METAL OBJ | | | X | | FITRON 213 051859Z AUG 79 | |
| 687150 | | SUSP METAL OBJ | | X | | | " 32 081611Z AUG 79 | |
| 687230 | | INT MAT FAIL | | X | | | NIMITZ 091352Z AUG 79 | |
| 679338 | | SUSP RIVET | | X | | | FITRON 14 141600Z AUG 79 | |
| 687120 | | SUSP SAFETY WIRE | | | X | | NIMITZ 141748Z AUG 79 | |
| 679379 | | SUSP CALFAX | | X | | | FITRON 142 231630Z AUG 79 | |
| 695438 | | MTL OBJECT | | X | | | " " 231230Z AUG 79 | |
| 687278 | | FLOTATION VEST & TOOL POUCH | | | X | | NIMITZ 281647Z AUG 79 | AE2-923523 |

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|--------|-----|-------------------------|------|-------|------|-----------|---------------------------|-----|
| 695186 | MAJ | UNK | | X | | | NIMITZ 0422122Z OCT 79 | |
| 679301 | MAJ | UNK | | X | | | FITRON 124 131920Z SEP 79 | |
| 695082 | MAJ | SUSP HI-TORQUE FASTENER | | X | | | " 211 261445Z SEP 79 | |
| 687034 | MAJ | UNK | | X | | | PT MUGU 212032Z SEP 79 | |
| 679420 | MAJ | R/W DEBRIS | | X | | | FITRON 124 121633Z SEP 79 | |
| 687157 | MIN | UNK | | | X | | " 211 102315Z SEP 79 | |
| 695020 | MIN | RIVET | | X | | | " " 091610Z SEP 79 | |
| 695414 | | UNK | | | X | | * 790927 3 0201 | |
| 687043 | | SUSP CALFAX | | | | | VF-101 FOD REPORT | |
| 687169 | MAJ | UNK | REP | X | | | MIRAMAR 102344Z OCT 79 | |

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| 687292 | MAJ | UNK | | X | | | FITRON 24 091500Z OCT 79 | |
| 695493 | MAJ | UNK | | X | | | " 2 111955Z OCT 79 | |
| 679477 | MAJ | SUSP CALFAX FASTENER | REP | X | | | " 24 222345Z OCT 79 | |
| 687284 | MAJ | UNK | | | X | | CONSTELLATION 242117Z OCT 79 | |
| 695417 | MIN | UNK | | | X | | " 272253Z OCT 79 | |
| 679432 | MAJ | SUSP METAL OBJ | REP | X | | | FITRON 213 312101Z OCT 79 | |
| 687215 | MAJ | SUSP SMALL METAL OBJ | | X | | | " 010400Z NOV 79 | |
| 679327 | MAJ | RAG | | X | | | PT MUGU 052254Z OCT 79 | |
| 687198 | | UNK | | X | | | FITRON 14 121525Z OCT 79 | |
| 695431 | | UNK | | | X | | NIMITZ 170729Z OCT 79 | |
| 687010 | | UNK | | | | X | OCEANA 232222Z OCT 79 | |
| 679258 | | SUSP SCREW/CALFAX | | X | | | FITRON 101 221926Z OCT 79 | |
| 687255 | | SUSP INT FAIL | | | X | | NIMITZ 251110Z OCT 79 | |

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|--------|-----|----------------------|------|-------|------|-----------|------------------------------|-----|
| 687286 | MAJ | FASTENER | | X | | | FITRON 24 262000Z NOV 79 | |
| 687144 | MIN | UNK | | X | | | FITRON 114 152331Z NOV 79 | |
| 679395 | | UNK | | | X | | NIMITZ 181754Z NOV 79 | |
| 695450 | | SUSP SCREW | | X | | | VF-101 REPORT NORVA | |
| 687169 | MAJ | SUSP FASTENER | | X | | | FITRON 124 021641Z NOV 79 | |
| 695046 | MAJ | STEEL STRIPPING SHOT | | | X | | CUBI PT 092347Z DEC 79 | |
| 679343 | MAJ | UNK | | | X | | CONSTELLATION 052126Z DEC 79 | |
| 679527 | MAJ | FLASHLIGHT | REP | X | | | FITRON 124 262257Z DEC 79 | |
| 679319 | MIN | SUSP FASTENER | | X | | | " 211 201500Z DEC 79 | |
| 695546 | MAJ | UNK | BCM | | X | | KITTY HAWK 160450Z DEC 79 | |
| 67936 | | SUSP HI-TORQUE SCREW | | X | | | FITRON 101 051830Z DEC 79 | |
| 687029 | | HARD METAL OBJ | RFI | X | | | " 142 101453Z DEC 79 | |
| 695413 | MAJ | UNK | BCM | | X | | KITTY HAWK 021431Z JAN 80 | |

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|--------|-----|----------------------|-------|-------|------|-----------|------------------------------|------------|
| 695098 | MAJ | INLET DIFFUSER RAMP | | X | | | FITRON 1 250057Z JAN 80 | |
| 695545 | MAJ | INT MAT FAILURE | BCM | | X | | KITTY HAWK 020653Z FEB 80 | |
| 687038 | MAJ | CALFAX | | | X | | NIMITZ 260820Z JAN 80 | |
| 695038 | MAJ | NON-SKID | BCM | X | | | FITRON 114 172001Z JAN 80 | |
| 679430 | | SUSP METAL OBJ | | | X | | FITRON 142 241724Z JAN 80 | |
| 679555 | | SUSP SCREW/BOLT | BCM-7 | | X | | " " 252240Z JAN 80 | AG7-002264 |
| 695478 | MAJ | INT MAT FAIL | BCM | | X | | NIMITZ 041445Z FEB 80 | |
| 687235 | MAJ | NON-SKID | BCM | | X | | " " " " | |
| 679356 | MAJ | NON-SKID | BCM | | X | | " " " " | |
| 695557 | MAJ | UNK | BCM | | X | | KITTY HAWK 121150Z FEB 80 | |
| 687085 | MAJ | GUN COWLING FASTENER | RF1 | | X | | CONSTELLATION 042132Z FEB 80 | |
| 687185 | MAJ | INT MAT FAIL | BCM | | X | | " " " " | |

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| 695593 | MAJ | SUSP 10/32" BOLT/SCREW | REP | X | | FITRON 124 112145Z FEB 80 | | |
| 687134 | MAJ | SUSP BOLT | | X | | " 211 152147Z FEB 80 | | |
| 695185 | MAJ | UNK | BCM | X | | " 214 152104Z FEB 80 | | |
| 695163 | MIN | SUSP BRITTLE OBJ, NON-SKID | BCM | | X | NIMITZ 190418Z FEB 80 | | |
| 679475 | MAJ | UNK | | | X | FITRON 2 042200Z FEB 80 | | |
| 687130 | MAJ | UNK | | X | | PT MUGU 080013Z MAR 80 | | |
| 687024 | MAJ | SUSP R/W CEMENT | | X | | FITRON 114 271801 FEB 80 | | |
| 695566 | MAJ | SUSP SCREW OR CALFAX | REP | X | | " 1 242335Z FEB 80 | | |
| 687096 | MAJ | SUSP FASTENER | | X | | " 213 111700Z FEB 80 | | |
| 679467 | MAJ | SUSP METAL OBJ | BCM | X | | " " 052200Z FEB 80 | | |
| 679366 | MIN | SUSP SMALL STONE | | X | | " 211 080446Z FEB 80 | | |
| 687285 | MIN | " " " | | X | | " " 080449Z FEB 80 | | |
| 687275 | MAJ | INT MAT FAIL | BCM | X | | 24 221317Z FEB 80 | | PK6-005229 |
| 679420 | MAJ | HI-TORQUE SCREW | REP | X | | " " 072115Z FEB 80 | | PK6-003854 |
| 695575 | MAJ | NUT OR BOLT | REP | | X | NIMITZ 190601Z FEB 80 | | |
| 679503 | | UNK | BCM | X | | FITRON 143 062005Z FEB 80 | | |
| 679416 | | SUSP CALFAX | | X | | " 101 221923Z FEB 80 | | |
| 679436 | | SUSP SCREW | | | X | " 143 281955Z FEB 80 | | |
| 695405 | | SUSP RIVET | | | X | " " 281956Z FEB 80 | | |

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|--------|-----|---------------------|-----|---|---|---------------------------|--|-----|
| 679316 | MAJ | UNK | | X | | FITRON 2 071631Z APR 80 | | |
| 687045 | MAJ | STEEL OBJ | RFI | | X | " 24 311328Z MAR 80 | | |
| 695033 | MIN | UNK | | | X | " 152145Z MAR 80 | | |
| 679374 | MAJ | 5/16" BOLT | | | X | " 230147Z MAR 80 | | |
| 695075 | MAJ | INT MAT FAIL | RFI | | X | " 152143Z MAR 80 | | |
| 687051 | MAJ | SUSP METAL OBJ | | | X | " 130146Z MAR 80 | | |
| 695512 | MAJ | UNK | | | X | " 131622Z MAR 80 | | |
| 687085 | MAJ | SUSP FASTENER | | | X | FITRON 211 292026Z MAR 80 | | |
| 695189 | MAJ | METAL OBJ | | | X | NIMITZ 250527Z MAR 80 | | |
| 687170 | MAJ | LARGE BOLT | | | X | " 120448Z MAR 80 | | |
| 701183 | MAJ | SUSP HAIL/ICE | REP | X | | FITRON 124 271758Z MAR 80 | | |
| 687159 | MAJ | 10/32" HEXHEAD BOLT | | | X | " 261855Z MAR 80 | | |
| 679387 | MAJ | UNK | | | X | " " " | | |
| 695068 | | UNK | | | X | " 143 062210Z MAR 80 | | |
| 679308 | | SMALL METAL OBJ | REP | | X | " 142 202338Z MAR 80 | | |
| 679514 | | METAL OBJ | BCM | | X | " 121503Z MAR 80 | | |
| 695022 | | METAL OBJ | | | X | FITRON 101 201145Z MAR 80 | | |
| 679529 | | UNK | | X | | * 800326 3 0301 | | WC5 |

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|--------|-----|------------------------------|-------|-------|------|-----------|----------------------------|-----|
| 695554 | MIN | UNK | HS1 | X | | | MIRAMAR 092031Z MAY 80 | |
| 695009 | MAJ | FASTENER | BCM | | X | | RANGER 020605Z MAY 80 | |
| 695175 | MAJ | SUSP SCREW | | X | | | FITRON 2 091700Z MAY 80 | |
| 687027 | MAJ | NOSE WHEEL DOWNLOCK PIN | | X | | | AIRTEVRON 4 160039Z MAY 80 | |
| 679556 | MAJ | SUSP 5/16 BOLT | BCM | | X | | FITRON 24 280935Z MAY 80 | |
| 679355 | MAJ | SUSP SMALL BOLT | BCM | | X | | " 190438Z MAY 80 | |
| 687170 | MAJ | SMALL METAL OBJ | | | X | | NIMITZ 070925Z MAY 80 | |
| 664230 | MAJ | UNK | | X | | | ATKRON 122 231903Z MAY 80 | |
| 687141 | MAJ | INT MAT FAIL | BCM-7 | | X | | FITRON 142 170559Z MAY 80 | |
| 679391 | MAJ | SUSP SCREW/LITE ASSY FROM/FR | BCM-7 | | X | | " 143 300032Z MAY 80 | |
| 687243 | MAJ | SUSP CALFAX | REP | | X | | " 280808Z MAY 80 | |
| 695453 | MIN | SUSP SAFETY WIRE | | | X | | " 211850Z MAY 80 | |
| 674658 | MAJ | UNK | BCM-7 | | X | | " 110736Z MAY 80 | |
| 687063 | MAJ | SUSP FASTENER | BCM | | X | | " 211 101919Z MAY 80 | |
| 701172 | MIN | SUSP NON-SKID | BCM | | X | | " 181543Z MAY 80 | |

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| 679350 | MAJ | FASTENER | BCM-7 | X | EISENHOWER 060502Z JUN 80 | |
| 687109 | MAJ | UNK | REP | X | MIRAMAR 100030Z JUN 80 | |
| 695175 | MAJ | UNK | REP | X | " " " | |
| 679417 | MAJ | BOLT | CER | X | FITRON 1 241530Z JUN 80 | |
| 687292 | MAJ | 1/4 x 32 BOLT | | X | " 24 011422Z JUL 80 | |
| 679347 | MAJ | 5/16 BOLT | BCM | X | " 261856Z JUN 80 | |
| 687077 | MAJ | 1/4 x 28 BOLT | BCM | X | " 161602Z JUN 80 | |
| 687070 | MAJ | CALFAX | REP | X | " 124 191525Z JUN 80 | |
| 695568 | MAJ | SUSP GRAVEL | HSL | X | " 042230Z JUN 80 | |
| 679338 | MIN | UNK | | X | " 142 210912Z JUN 80 | |
| 687298 | MIN | UNK | | X | " 252002Z JUN 80 | |
| 679484 | MIN | UNK | | X | " 120501Z JUN 80 | |
| 687064 | MIN | UNK | | X | " 120507Z JUN 80 | |
| 679551 | MAJ | SCREW | BCM | X | " 111039Z JUN 80 | |
| 679379 | MIN | SUSP TIRE RUBBER | | X | " 140445Z JUN 80 | |
| 687110 | MIN | UNK | | X | " 072131Z JUN 80 | |
| 679338 | MAJ | SCREW OR BOLT | BCM | X | " 081120Z JUN 80 | |
| 67351 | MIN | UNK | | X | " 081124Z JUN 80 | |
| 679504 | MAJ | MAIN LANDING GEAR DOWNLOCK PIN | BCM | X | X 143 290457Z JUN 80 | |
| 679022 | MIN | UNK | | X | " 211111Z JUN 80 | |
| 687170 | | 10/38 SCREW | BCM | X | NIMITZ 031930Z JUN 80 | |

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|--------|---------------|-------|-------|-------|------|-----------|---------------------------|-----|
| 695193 | UNK | | BCM | X | | | OCEANA 032044Z JUN 80 | |
| 687141 | INT MAT FAIL | | BCM-7 | | X | | EISENHOWER 060502Z JUN 80 | |
| 674658 | SUSP FASTENER | | BCM-7 | | X | | " " | |
| 679263 | SUSP SCREW | | | X | | | FITRON 41 262146Z JUN 80 | |
| 695166 | UNK | | BCM | | X | | EISENHOWER 031818Z APR 80 | |

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|--------|-----|------------------|------|------|-------|---------------------------|-----|
| 679376 | MAJ | SUSP NON-SKID | BCM | X | | FITRON 211 051408Z JUL 80 | |
| 695442 | MAJ | SUSP 1/4" BOLT | RFI | X | | " " 051337Z JUL 80 | |
| 687298 | MIN | UNK | | X | | 142 031350Z JUL 80 | |
| 679320 | MAJ | UNK | BCM | X | | " 143 091218Z JUL 80 | |
| 687484 | MIN | SUSP CALFAX | REP | X | | " 142 081107Z JUL 80 | |
| 695402 | MIN | UNK | | X | | " " 160209Z JUL 80 | |
| 687150 | MIN | UNK | | X | | " 143 170549Z JUL 80 | |
| 687105 | MAJ | ICS HEADSET ASSY | BCM | X | | " 211 161250Z JUL 80 | |
| 679434 | MAJ | UNK | BCM | X | | RANGER 140734Z JUL 80 | |
| 687103 | MAJ | NUT OR BOLT | REP | X | | FITRON 2 142200Z JUL 80 | |
| 687020 | MIN | UNK | | X | | " 142 021312Z AUG 80 | |
| 695402 | MIN | UNK | | X | | " " 010537Z AUG 80 | |
| 679417 | MAJ | UNK | | X | | " 1 230450Z JUL 80 | |
| 695019 | MIN | UNK | | X | | " 142 261721Z JUL 80 | |
| 687123 | MIN | UNK | | X | | " " 280528Z JUL 80 | |
| 687127 | MAJ | UNK | | X | | " 124 292130Z JUL 80 | |
| 674659 | MAJ | UNK | REP | X | | " 142 301418Z JUL 80 | |
| 679542 | MAJ | NUT & BOLT | BCM | | | MIRAMAR 08007Z AUG 80 | |
| 701169 | | GUN SAFETY PIN | | X | | FITRON 14 222037Z JUL 80 | |
| 679259 | | STEEL NUT | | | | " 41 312301Z JUL 80 | |

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|--------|-----|--------------------------|-------|-------|------|-----------|---------------------------|-----|
| 687268 | MAJ | PANEL SCREW | | | X | | FITRON 124 091908Z SEP 80 | |
| 679487 | MAJ | UNK | | | X | | RANGER 111127Z AUG 80 | |
| 679555 | MAJ | UNK | | X | | | FITRON 2 022101Z SEP 80 | |
| 695187 | MIN | SUSP FASTENER | | X | | | " " 022100Z SEP 80 | |
| 687094 | MAJ | INNER WHEEL BEARING | BCM | | X | | FITRON 24 150822Z AUG 80 | |
| 687046 | MAJ | LANDING GEAR SAFETY LOCK | | X | | | " 51 231501Z AUG 80 | |
| 695084 | MIN | SUSP FASTENER | | X | | | " 111 021843Z SEP 80 | |
| 679322 | MAJ | A/A GUNNERY TGT BANNER | BCM | X | | | " " 192215Z AUG 80 | |
| 695188 | MIN | HSD FILTER | | X | | | " " 271733Z AUG 80 | |
| 695029 | MIN | UNK | | | X | | " 142 050502Z AUG 80 | |
| 687086 | MIN | UNK | | | X | | " " 091117Z AUG 80 | |
| 695402 | MAJ | F/D DEBRIS | BCM | | X | | EISENHOWER 180434Z AUG 80 | |
| 695029 | MIN | " " | | | X | | FITRON 142 212028Z AUG 80 | |
| 687020 | MIN | NOSE TIRE RUBBER | | | X | | " " 212037Z AUG 80 | |
| 687064 | MIN | METAL OBJ | BCM | | X | | " " 212032Z AUG 80 | |
| 679484 | MIN | UNK | | | X | | " " 030855Z SEP 80 | |
| 687121 | MAJ | UNK | BCM | | X | | EISENHOWER 301022Z AUG 80 | |
| 679380 | MIN | UNK | | | X | | FITRON 143 100448Z AUG 80 | |
| 695186 | MAJ | PIECE DIFFUSER RAMP SEAL | BCM | | X | | " 211 132125Z AUG 80 | |
| 701227 | | UNK | | X | | | " 101 111700Z AUG 80 | |
| 701159 | | UNK | BCM-7 | | X | | " 14 141506Z AUG 80 | |

TF30-P414
AUG 1980

TEST CELL
SHIP
SHORE

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|---------------------|------|-------|------|-----------|---------------------------|------|
| 679342 | | SUS CALFAX MAT FAIL | | X | | | FITRON 101 151300Z AUG 80 | |
| 679322 | | TOW CABLE BANNER | | X | | | SAN DIEGO 281517Z AUG 80 | PDL- |

TF30-P414
SEP 1980

| S/N | CAT | CAUSE | DISP | SHIP | | | REF | JCN |
|--------|-----|----------------------------------|------|-------|------|-----------|---------------------------|-----|
| | | | | SHORE | SHIP | TEST CELL | | |
| 695489 | MAJ | UNK | | X | | | FITRON 124 082041Z OCT 80 | |
| 695491 | MAJ | UNK | | X | | | " 1 061452Z SEP 80 | |
| 679296 | MAJ | UNK | | | X | | RANGER 090555Z OCT 80 | |
| 679420 | MAJ | CAP & METAL RIM SUNGLASSES | | | X | | FITRON 24 300615Z SEP 80 | |
| 701283 | MAJ | UNK | | X | | | " 51 231901Z SEP 80 | |
| 701270 | MAJ | SUSP GRAVEL | | X | | | " 114 181131Z SEP 80 | |
| 687111 | MAJ | FASTENERS | | X | | | " " 061401Z OCT 80 | |
| 674657 | MAJ | SUSP INT MAT FAIL | | X | | | " 124 181535Z SEP 80 | |
| 679456 | MAJ | SOFT OBJ | | X | | | " " 291525Z SEP 80 | |
| 695046 | MIN | PIECES OF MISSILE NOSE GEAR ASSY | | | X | | " 142 220229Z SEP 80 | |
| 695564 | MIN | NON-SKID | | | X | | 291602Z SEP 80 | |
| 687028 | MIN | UNK | | | X | | 011634Z OCT 80 | |
| 687086 | MAJ | UNK | BCM | | X | | EISENHOWER 161120Z SEP 80 | |
| 695019 | MAJ | GUN SAFETY PIN | BCM | | X | | FITRON 142 131909Z SEP 80 | |
| 687119 | MIN | NON-SKID | | | X | | " " 081801Z SEP 80 | |
| 687028 | MIN | NON-SKID | | | X | | " " 081758Z SEP 80 | |
| 679484 | MIN | NON-SKID | | | X | | " " 081805Z SEP 80 | |
| 679315 | MIN | UNK | | | X | | " 143 011115Z OCT 80 | |
| 679447 | MIN | UNK | | | X | | " " 010831Z OCT 80 | |
| 679340 | MIN | SUSP SAFETY WIRE | | | X | | " " 160522Z SEP 80 | |
| 687144 | MIN | UNK | | | X | | " " 070757Z SEP 80 | |

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TEST CELL

SHIP

SHORE

FITRON 143 110429Z SEP 80
" 213 261545Z SEP 80
101 081845Z SEP 80
NIMITZ 101711Z SEP 80
" 102148Z SEP 80
FITRON 142 220233Z SEP 80
NIMITZ 232138Z SEP 80

X
X
X

BCM

IFR PROBE DOOR
SUSP FASTENER
SUSP CALFAX
UNK
UNK
UNK
NOSE GEAR DOWN LOCK PIN

MAJ
MAJ
MIN

695003
679281
687057
687120
697443
679434
679418

TEST CELL
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SHORE

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|--------------------------------|------|-------|------|-----------|----------------------------|-----|
| 687086 | MAJ | UNK | BCM | | X | | EISENHOWER 040603Z OCT 80 | |
| 687020 | MIN | UNK | | | X | | FITRON 142 061129Z OCT 80 | |
| 695404 | | SUSP GUN PANEL CALFAX | | X | | | OCEANA 061807Z OCT 80 | |
| 679422 | MAJ | UNK | | | X | | FITRON 143 080558Z OCT 80 | |
| 695419 | | BROKEN PANEL CORNER | | X | | | " 101 101430Z OCT 80 | |
| 679379 | MIN | CALFAX | BCM | | | | " 142 111120Z OCT 80 | |
| 695405 | MIN | UNK | | | | | " " 161012Z OCT 80 | |
| 695556 | MAJ | SUSP CALFAX | BCM | | X | | " 143 161554Z OCT 80 | |
| 687112 | MAJ | SUSP COCKPIT SAFETY PIN & FLAG | | X | | | AIRTEVRON 4 250100Z OCT 80 | |

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S/N

EISENHOWER 101318Z NOV 80
FITRON 143 120636Z NOV 80
" 142 151855Z NOV 80
" " 151856Z NOV 80
" 143 181631Z NOV 80

X
X
X
X
X

UNK
PANEL SCREW
UNK
UNK
UNK

MAJ
MAJ
MIN
MIN
MAJ

687020
679400
679484
679328
687144

SHORE
SHIP
TEST CELL

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|----------------|------|-------|------|-----------|---------------------------|------|
| 687255 | MIN | UNK | | | X | | FITRON 142 021100Z DEC 80 | |
| 679461 | | SUSP METAL OBJ | | | X | | 32 092027Z DEC 80 | |
| 701213 | | SUSP ICE | | | X | | " 101233Z DEC 80 | AB2- |
| 687141 | | UNK | BCM7 | | X | | AMERICA 131322Z DEC 80 | |
| 701213 | MAJ | SUSP ICE | | | X | | KENNEDY 192147Z DEC 80 | |

TEST CELL
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SHORE

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|--------------|-------|-------|------|-----------|---------------------------|-----|
| 664201 | | UNK | | X | | | ATKRON 174 132010Z NOV 79 | |
| 671482 | | UNK | | X | | | " 205 172006Z NOV 79 | |
| 671482 | | UNK | | X | | | " " 232000Z JAN 80 | |
| 664188 | | UNK | | X | | | " " 032030Z FEB 80 | |
| 671490 | MAJ | INT MAT FAIL | | X | | | " 122 271700Z FEB 80 | |
| 664330 | MAJ | INT MAT FAIL | | X | | | " " 271830Z MAR 80 | |
| 664228 | MAJ | INT MAT FAIL | BCM-1 | X | | | " " 061730Z MAY 80 | |
| 664230 | MAJ | GRAVEL | BCM-1 | X | | | LEMOORE 111521Z JUN 80 | |
| 671484 | | NUTS | | X | | | * 800110 3 0501 | |
| 664443 | | UNK | | X | | | * 800205 3 0301 | |
| 664255 | MAJ | BIRD | | X | | | * 800207 3 0101 | |
| 671486 | | BIRD | | X | | | * 801004 3 0301 | |
| 664286 | | UNK | | X | | | ** 791012 5 21370 | |
| 664333 | | UNK | | X | | | ** 791120 5 23000 | |
| 671496 | | SUSP RIVET | | X | | | ** 800425 5 16070 | |
| 664357 | | RUBBER | | X | | | ** 800912 5 14450 | |

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TEST CELL
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|--------|-----|--------------|-----|---|--|---------------------------------|------------|
| 202001 | MIN | UNK | REP | X | | AIRANTISUBRON 41 071646Z JUN 79 | |
| 202033 | | UNK | | | | NIMITZ 202105Z AUG 79 | AP2-921235 |
| 202051 | | UNK | | | | " 252248Z AUG 79 | |
| 202093 | MAJ | METAL OBJ | AWP | X | | CUBI PT 110147Z SEP 79 | |
| 202330 | MAJ | METAL OBJ | BCM | | | CUBI PT 220157Z OCT 79 | |
| 202278 | | UNK | | X | | AIRANTISUBRON 31 182001Z OCT 79 | |
| 202183 | | UNK | | X | | " 32 191905Z OCT 79 | |
| 202174 | | INT MAT FAIL | | X | | " 192101Z OCT 79 | |
| 202321 | | INT MAT FAIL | | | | NIMITZ 091830Z NOV 79 | |
| 202011 | MIN | UNK | | X | | AIRANTISUBRON 41 101708Z DEC 79 | |
| 202316 | MIN | UNK | | X | | AIRANTISUBRON 41 121834Z DEC 79 | |
| 202219 | | UNK | | | | NIMITZ 270830Z DEC 79 | |

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| 202338 | MAJ | INT MAT FAIL | | X | | AIRANTISUBRON 29 170030Z JAN80 | |
| 202153 | MIN | CRANIAL HELMET | | X | | " 33 291905Z JAN80 | PQ1-0025157 |
| 202138 | MAJ | BIRDSTRIKE | | X | | " 21 310130Z JAN80 | |
| 202024 | | INTAKE SCREEN LATCH | | X | | AIRANTISUBRON 31 082000Z FEB80 | |
| 201110 | | UNK | BCM | X | | " 32 271815Z FEB80 | |
| 202406 | | UNK | BCM | | X | AIRANTISUBRON 31 020332Z MAR80 | |
| 202411 | MIN | CAM LOCK FASTENER | | X | | " 33 122312Z MAR80 | PQ1-007226 |
| 201103 | MIN | UNK | | X | | " 41 111925Z MAR80 | |
| 202089 | | SUSP RIVET HEAD | | X | | * 800425 5 11230 | |
| 202187 | | SUSP INT MAT FAIL | BCM | X | | AIRANTISUBRON 32 041827Z MAY80 | |
| 202416 | MAJ | UNK | BCM | | X | RANGER 052327Z JUN 80 | |
| 202308 | MAJ | UNK | AWP | X | | SAN DIEGO 181449Z JUL 80 | |
| 202416 | MAJ | UNK | BCM | | X | " " " | |

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| 202044 | MIN | INTAKE SCREEN PARTICLE | BCM | X | | AIRANTISUBRON 21 021744Z JUL80 | |
| 202242 | MAJ | SUSP NON-SKID | BCM | | X | " 38 071826Z JUL80 | |
| ? | MAJ | CLOTH RAG | | | X | " 250847Z JUL80 | |
| 202245 | MAJ | SUSP SMALL ROCK | I/W | X | | " 21 242220Z JUL80 | |
| 202230 | | UNK | | X | | " 30 282120Z JUL80 | |
| 202181 | | INT MAT FAIL | | X | | " 24 251645Z JUL80 | |
| 202104 | | INT MAT FAIL | | X | | " " " | |
| 202155 | | UNK | BCM-7 | | X | AIRANTISUBRON 32 191835Z AUG80 | |
| 202021 | | UNK | BCM-7 | | X | " " 201657Z AUG80 | |
| 202403 | MAJ | HOLDBACK FITTING | | | X | RANGER 092033Z AUG 80 | |
| 202435 | | RADOME LATCH FASTENER | | X | | AIRANTISUBRON 33 292040Z SEP80 | |
| 202395 | | | | | X | RANGER 221053Z SEP 80 | |
| 201104 | | | | | X | RANGER 170715Z SEP 80 | |
| 202238 | | UNK | | | X | AIRANTISUBRON 32 271948Z SEP80 | |
| 201114 | | UNK | BCM 7 | | X | " " 271954Z SEP80 | |
| 202064 | | UNK | | | X | * 800926 5 19050 | AN3-0258198 |
| 202270 | | INT MAT FAIL | | | X | * 800927 5 03015 | |

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| 202204 | UNK | | | | | AIRANTISUBRON 32 061815Z OCT80 | | |
| 202059 | SUSP SCREW | | | | | " 30 102045Z OCT80 | | |
| 202009 | UNK | | | BCM 7 | | KENNEDY 021415Z NOV 80 | | |
| 202123 | UNK | | | BCM 7 | | " " | | |
| 202158 | INT MAT FAIL | | | BCM 7 | | " " | | |
| 202433 | SUSP INT MAT FAIL | | | | | AIRANTISUBRON 22 131355Z NOV80 | | |
| 202191 | INT MAT FAIL | | | | | AIRANTISUBRON 30 092101Z DEC80 | | |

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JUN-DEC 1979

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|--------|------------------------------------|-----|---|---|-----------------------------|-------------|
| 650120 | GREASE RAG | | X | | * 790620 4 0401 | SCO-917108 |
| 649895 | UNK | | X | | * 790719 3 0501 | SUO-9200006 |
| 650019 | UNK | | X | | ** 790813 5 17030 | TAE-9218856 |
| 650008 | UNK | | | X | ** 790824 5 18160 | TB2-9191447 |
| 636697 | SMALL HARD OBJ | MAJ | X | | ATKRON 127 161429Z AUG 79 | |
| 650004 | SOFT MATERIAL | MIN | X | | " " 151729Z AUG 79 | |
| 650447 | INT MAT FAIL | | X | | FLECOMPRON 2 181902Z OCT 79 | |
| 636407 | UNK | | X | | HAMS 31 261941Z OCT 79 | |
| 649710 | CONCRETE | | X | | ** 791114 5 17450 | AC6-9311411 |
| 650104 | PARACHUTE SHIPPING STREAMER | | X | | * 791213 4 0201 | WC6- |
| 649811 | O ₂ MASK PROTECTIVE BAG | | X | | * 791226 3 0401 | TB1-9360004 |

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JUL-DEC 1980

SHORE
SHIP
TEST CELL

| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|--------|--------------------|------|-------|------|-----------|-----------------------------|-------------|
| 650170 | | SAFETY WIRE | | X | | | ** 800729 5 15390 | PE6-0203030 |
| 650454 | | UNK | | X | | | FLECOMPRON 2 161244Z JUL 80 | |
| 650140 | | BIRD | | X | | | ATKRON 45 042154Z AUG 80 | TAB-023208 |
| 649861 | MAJ | UNK | | X | | | ATKRON 127 042239Z SEP 80 | |
| 650204 | CANOPY | ACCESS DOOR LATCH | | X | | | HAMS 31 161330Z OCT 80 | |
| 650268 | | UNK | | X | | | TACELRON 33 301616Z OCT 80 | |
| 650385 | | NEEDLE NOSE PLIERS | | X | | | MAG 42 121630Z DEC 80 | |

** UNSATISFACTORY REPORT FILE, RECORD IDENT

TEST CELL
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| 650558 | MAJ | METAL OBJ | | X | | | SAN DIEGO 010106Z JUN 79 | |
| 636050 | | CAMERA (PERSONAL) | BCM | X | | | TACELRON 33 191305Z JUL 79 | |
| 678322 | MAJ | BIRD | | X | | | VMA 311 181837Z JUL 79 | |

| S/N | CAT | CAUSE | DISP | TEST CELL | | | REF | JCN |
|--------|-----|----------------|------|-----------|------|--|-----------------------------|-------------|
| | | | | SHORE | SHIP | | | |
| 650595 | MAJ | UNK | | X | | | HAMS 24 280219Z AUG 79 | |
| 661203 | MIN | UNK | | X | | | FLECOMPRON 7 162055Z AUG 79 | |
| 661306 | MAJ | INT MAT FAIL | | X | | | HAMS 12 270220Z SEP 79 | |
| 650600 | MAJ | INTAKE SKREEN | | X | | | FLECOMPRON 5 010800Z OCT 79 | |
| 650544 | | SCHRADER VALVE | | X | | | FITRON 171 091805Z OCT 79 | |
| 660822 | | INTAKE SCREEN | | X | | | * 791103 4 1001 | SUO929736 |
| 660846 | | INT MAT FAIL | | X | | | FLECOMPRON 2 161700Z NOV 79 | |
| 661090 | MAJ | UNK | | X | | | ** 791210 5 15310 | PE6-9339080 |

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TEST CELL
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| S/N | CAT | CAUSE | DISP | SHIP | SHORE | REF | JCN |
|--------|-----|------------------------|------|------|-------|-----------------------------|-------------|
| 677460 | | UNK | | X | | * 800116 3 1001 | A11-001614 |
| 660704 | | UNK | | X | | ** 800113 5 12530 | SFO-0004A00 |
| 661590 | MAJ | UNK | | X | | VMAT 102 221610Z FEB 80 | |
| 677255 | | UNK | | X | | ** 800427 5 20350 | STO-0115567 |
| 660895 | MIN | UNK | | X | | FLECOMPRON 7 211636Z APR 80 | |
| 677311 | MIN | DEBRIS | | X | | HAM 13 292229Z APR 80 | |
| 677399 | | BIRD | | X | | FITRON 43 022048Z APR 80 | |
| 661389 | | FASTENER | | X | | HAMS 32 101747Z APR 80 | |
| 661183 | MAJ | UNK | | X | | HAMS 13 051705Z MAY 80 | |
| 677549 | | IFR PROBE COVER | | X | | FLECOMPRON 2 091442Z JUN 80 | |
| 677399 | | EXT CANOPY HANDLE ASSY | | X | | FITRON 43 291902Z JUN 80 | |

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TEST CELL
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| S/N | CAT | CAUSE | DISP | SHORE | SHIP | TEST CELL | REF | JCN |
|--------|-----|-------|------|-------|------|-----------|---------------------------|-------------|
| 661076 | | UNK | | X | | | ** 800701 5 21145 | WA5-0170445 |
| 661218 | MAJ | UNK | | X | | | HAMS 13 192341Z SEP 80 | |
| 650577 | | UNK | | X | | | FTTRON 171 241348Z NOV 80 | |

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TEST CELL

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|--------|-----------------------|-----|---|--|--------------------------|-------------|
| 678550 | METAL OBJ | | X | | * 790713 3 0301 | GE3-919440 |
| 678390 | SUSP DEBRIS | | X | | * 790823 3 0401 | SLO-923550 |
| 678182 | UNK | | X | | FITRON 43 021830Z AUG 79 | |
| 678591 | UNK | MAJ | X | | VMA 311 221958Z OCT 79 | |
| 678395 | UNK DEBRIS | | X | | ** 791113 5 17530 | FFF-9274514 |
| 678281 | UNK | | X | | ** 791123 5 00090 | FFF-9318217 |
| 678173 | UNK | MAJ | X | | VMA 211 130745Z NOV 79 | |
| 678167 | CENTERLINE BREECH CAP | MIN | X | | VMAT 102 081705Z NOV 79 | |
| 678465 | UNK | MAJ | X | | VMA 211 040432Z DEC 79 | |

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|--------|-----|------------------------|---|--|--|--------------------------|-------------|
| 678299 | UNK | | X | | | * 800220 3 0201 | GE3-005191 |
| 678496 | MAJ | TURN-UP SCREEN | X | | | VMAT 102 201640Z FEB 80 | |
| 678520 | MAJ | SAFETY WIRE | X | | | VMA 311 270016Z FEB 80 | |
| 678422 | | SUSP SMALL STONE | X | | | ** 800605 5 23540 | SLO-0136137 |
| 678400 | MAJ | MATERIAL FROM CSD DOOR | X | | | AIRTEVRON 150011Z JUL 80 | |
| 678258 | MIN | UNK | X | | | VMA 311 071745Z AUG 80 | |
| 678381 | MAJ | UNK | X | | | VMA 311 222357Z SEP 80 | |
| 678170 | | BIRD | X | | | * 800921 3 0201 | TAB-026594 |
| 678347 | | BIRD | X | | | * 801018 3 0101 | GB6- |

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|--------|-----|------------------|-----|---|---|--------------------------|------------|
| 141280 | MAJ | SUSP SCREW | | | | ATKRON 97 230040Z JUN 79 | PF6-917118 |
| 141883 | MAJ | UNK | BCM | X | | LEMOORE 052310Z JUL 79 | |
| 141323 | MAJ | SUSP SAFETY WIRE | REP | X | | " " " | |
| 142592 | MAJ | UNK | BCM | X | | " " " | |
| 141625 | MAJ | SUSP MTL OBJ | BCM | X | | " " " | |
| 141895 | MAJ | UNK | BCM | | | CUBI PT 110507Z JUN 79 | |
| 141548 | MAJ | TOOL | BCM | | X | MIDWAY 090730Z JUN 79 | |
| 141287 | MAJ | UNK | BCM | | | LEMOORE 062254Z JUN 79 | |
| 141912 | MAJ | UNK | BCM | | X | " " " | |
| 141568 | MAJ | INT MAT FAIL | BCM | | X | RANGER 130357Z JUL 79 | |
| 141957 | MAJ | SUSP ROCKS | | | | CUBI PT 200600Z JUN 79 | |
| 141276 | MAJ | " | | | | " " " | |
| 141369 | MAJ | " | | | | " " " | |
| 142568 | MIN | " | | | | " " " | |
| 141360 | MAJ | " | | | | " " " | |
| 141928 | MAJ | " | | | | " " " | |

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Thesis

M5955

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Foreign object
damage in Naval air-
craft engines.

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Foreign object
damage in Naval air-
craft engines.

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Foreign object damage in Naval aircraft



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